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Lidicker, W.Z.

1965-1974

catalogue

#2904-#3000

California
canada
Idaho

LIDICKER
1965

Brooks Island, Contra Costa Co., Calif.

May 11

2904. ♀ Microtus californicus 46.7 gm. 184-48-21.5-14

2905. ♂ " " 52.7 gm. 178-48-22-14.5

2906. ♀ " " 53.5 gm. 186-51-21-14

2907. ♀ " " 49.4 gm. 192-55-21.5-14

2908. ♀ " " 59.9 gm. 194-55-23-14

2909. ♀ " " 42.3 gm. 172-49-20.5-13.5

2910. ♂ " " 64.0 gm. 199-55-22.5-15

2911. ♂ " " 41.0 gm. 177-53-23-14.5

2912. ♀ " " 62.4 gm. 200-56-22-14

June 12,

2913. ♀ Microtus californicus 60.4 gm. 193-53-22.5-14.5
test. 9x5.5 mm.

2914. ♂ " " 58.3 gm. 205-56-22-15

2915 ♂ " " 57.6 gm. 195-53-22-14.5

7 mi. W Caronport, Saskatchewan, Canada

June 19

2916. ♀ Eutamias dorsatum SKULL ONLY lactating ? — -93-32

2 mi. NE Stanley, Custer Co., Idaho

July 1

2917. ♂ Citellus testes 5x3 mm, not desc.: not in breeding condition DOR 285-81-49-18

Brooks Island, Contra Costa Co., California

Sept. 5

2918. ♂ Microtus californicus BUFFY testes 5x3 mm. 47.5 g. 192-56-24-16

sent to Larry Brown, Univ. of Wyoming 1966
skin only sent

LIDICKER
1965
&
1966

from captivity, from stock from Ford Plant, Richmond, Contra Costa Co., Calif.

Sept. 13

2919. ♀ Microtus californicus — ♀590 pop. pit exp. #1 — 46.2 g. — hind foot w/ syndactyl. toes — 178-47-21.5-16

Brooks Is., Contra Costa Co., Calif.

Apr. 6, 1966

2920.	♀	Microtus californicus	70.7 g.	182-50-23-15
2921.	♂	" "	58.3 g.	200-60-23.5-15
2922.	♂	" "	61.5 g.	197-60-23-15.5
2923.	♀	" "	44.5 g.	188-53-23-15
2924	♂	" "	63.0 g.	189-50-22.5-15
2925	♂	" "	55.4 g.	195-54-21.5-16.5
2926	♀	" "	57.7 g.	201-57-22.5-15
2927.	♀	" "	59.2 g	200-56-23.5-15
2928.	♀	" "	60.2 g.	179-48-22-14
2929.	♀	" "	46.9 g.	179-46-21.5-14.5
2930.	♀	" "	45.9 g.	183-50-22-13.5
2931	♀	" "	50.8 g.	183-49-22.5-14
2932.	♂	" "	66.3 g.	213-63-23-14.5.
2933.	♀	" "	65.7 g.	186-51-21-14.5
2934.	♂	" "	54.6 g.	192-54-23-14
2935.	♂	" "	67.0 g.	——
2936	♂	" "	54.7 g.	192-53-21.5-15
2937.	♀	" "	51.4 g.	177-47-21-14
2938.	♂	" "	56.9 g.	197-55-23-15
2939.	♀	" "	57.9 g.	198-54-22-14
2940.	♂	" "	53.3 g.	194-51-23.5-14

LIDICKER
1967

Brooks Island, Contra Costa Co. Calif.

April 13

2941.	♂	Microtus californicus	61.4 g	191-48-21.5-15
2942.	♀	" "	50.1 g.	184-51-20.5-15
2943.	♂	" "	66.1 g.	196-53-22-15.5
2944.	♀	" "	45.0 g.	183-53-22-14
2945.	♂	" "	43.6 g.	179-50-22-12.5
2946.	♀	" "	80.9 g.	191-50-21-15
2947.	♀	" "	59.5 g.	189-53-21-15.5
2948.	♂	" "	71.0 g.	210-58-22-16
2949.	♂	" "	57.3 g.	192-49-22.5-14
2950.	♀	" "	48.6 g.	179-46-21.5-14
2951.	♀	" "	50.8 g.	183-50-21-14
2952.	♀	" "	44.6 g.	176-47-21-14.5
2953.	♀	" "	55.8 g.	186-53-21.5-14
2954.	♀	" "	40.7 g	176-45-20.5-14
2955.	♀	" "	52.0 g.	195-55-21-15
2956.	♀	" "	52.4 g.	178-47-21.5-14
2957.	♂	" "	48.3 g.	186-54-22-13
2958.	♀	" "	34.3 g.	165-42-21.5-13.5
2959.	♀	" "	38.1 g.	175-46-21.5-14.5
2960	♂	" "	(died April 17, 1967)	190-53-22.5-14

6 mi. NE Point Reyes, Marin Co. Calif.

May 28

2961.	♂	Zapus trinotatus	testes 9x5 mm. 22.2 g.	218-124-31.5-14

LIDICKER
1967
or
1968

1 mi. SE Inverness, Marin Co., California

May 28

2962.	♀	Peromyscus maniculatus rubidus	4 embs. x 12 mm. 33.8 g.	205-93-22-16
2963.	♀	" " "	4 embs. x 21 mm. 32.6 g.	166-67-22-16

Brooks Island, Contra Costa Co., Calif.

March 25, 1968

2964.	♀	Microtus californicus	58.4 g. no embs	187-51-22-14
2965.	♀	" "	45.8 g. 5 fresh pl. scars.	184-49-20.5-14
2966.	♀	" "	56.9 g. testes 8.5 x 5 mm.	193-53-22.5-15
2967	♂	" "	60.8 g. testes 8 x 5 mm.	190-53-22.5-14
2968.	♂	" "	68.2 g. testes 9 x 6 mm.	204-56-23-15
2969	♂	" "	59.3 g. testes 8 x 6 mm.	193-50-23-15
2970	♂	" "	63.3 g. 8 embs. x 12 mm.	207-59-23-14
2971	♀	" "	57.0 g. testes 8 x 6 mm.	187-51-21.5-14.5
2972	♂	" "	63.9 g. 7 fresh pl. scars.	201-54-22.5-14.5
2973	♀	" "	55.8 g. testes 11 x 6.5 mm	205-61-23-16
2974	♂	" "	61.8 g. 5 obv. pl. scars.	205-57-24-14
2975	♀	" "	49.8 g. test. 9 x 6 mm	186-49-21.5-15
2976	♂	" "	56.4 g. test. 8.5 x 6 mm.	195-52-21.5-14
2977	♂	" "	55.8 g. test. 9 x 6 mm	191-51-22.5-14.5
2978	♂	" "	61.1 g.	200-54-23-13.5
2979.	♀	" "	42.2 + 5 neonates 14.3 g.	197-57-23-15
2980.	♀	" "	42.8 g. + 6 neonates 14.4 g.	197-54-22-14
2981.	♀	" "	45.6 g. 6 embs. x 3 mm.	187-52-22.5-15
2982.	♀	" "	55.6 g. 5 embs x 31 mm.	186-52-22.5-14.5
2983.	♀	" "	40.1 g. 3 pl. scars	173-41-22-13.5

LIDICKER

1968
&
1969

Richmond Field Sta., Contra Costa Co., Calif.

born 3 April (in live trap); ~~[illegible]~~ died 16 April (13 days old)

2984 ♂ Microtus californicus coll. by J. Wolfheim 8.5 g. 90-18-15-8
SKULL & TAIL vertebrae ONLY killed by mother

2985 ♀ " " " " " 9.3 g. 91-22-16-7.5
SKULL + TAIL vertebrae only killed by mother

1 mi. SE Inverness, Marin Co., Calif.

7 Sept.

2986 ♂ Sorex 5.8 g. 127-54-15-8
testes 1½ mm.

Salga Tomales Bay State Park, 1¼ mi. NW Inverness, Marin Co., Calif.

7 Sept.

2987 ♂ Microtus californicus 36.2 g. 170-47-23-14.5
scrot. not pigm.; testes 6x4 mm. at. barely visible; S.V. 8 mm.

3 mi. W ½ mi. S Inverness, Marin Co., Calif.

7 Sept.

2988 ♂ Microtus californicus 40.4 g. 171-45-23-13.5
scrot. not pigm.; testes 3x1½ mm.; at. not visible

2989 ♀ " " 41.7 g. 171-45-21-13.5
killed 28 Sept. nulliparous; ov. w/sm. to med. follicles, small ca's
very fat
inf. p. sl. exp.; N tiny

Brooks Island, Contra Costa Co., California

11 April, 1969

2990 ♀ Microtus californicus 51.9 g. 187-48-22.5-13.5

2991 ♀ " " 55.4 g. 183+-43+-21-15

2992 ♂ " " 80.9 g. 228-64-24-16

2993 ♂ " " 46.7 g. 178-52-22-14

2994 ♀ " " 47.7 g. 178-48-20.5-13.5

2995 ♂ " " 49.7 g. 188-54-21.5-14

2996 ♂ " " 63.0 g. 207-60-22-14

2997 ♂ " " 71.4 g. 199-57-21.5-16

2998 ♂ " " 60.4 g. 194-53-23-—

2999 ♂ " " 68.8 g. 197+-49+-23-14

3000 ♀ " " 40.0 g. 175-46-20-13.5

Lidicker, W. Z.

1965 - 1968

Journal

Canada
Japan
California

L. DICKEN
1965

Winnipeg Trip
(with NIL) June 15 - July 3

June 15

Left home ~ 1545 (& El Cerrito Plaza at 1638) & drove to Redding for the night (via US 40, Winters & Cutten, & US 99W & US 99). Spent the night at English Villa motel.

June 16

Calif. 299 to Alturas; rain on the way. US 395 N to jct. w/ US 20 at Riley, Oregon. At Lake Abert saw: Eared grebe - com.
Calif. gull - com.
Wilson's phalarope - ~ 200
N. phalarope - ~ 15
Avocet - ~ 50
Mallard - ~ 10
Pintail - sev. pairs.

US 20 to Vale, Ore., where we spent the night at Williamson's Motel. Rain during most of day.

June 17

Cont. on US 20 to Ontario, then took Ore. 201 to Weiser, Idaho, & then on N on US 95. In Moscow we drove around U. of Idaho campus & then proceeded on Wash. 270 to Pullman where we similarly surveyed the Wash St. U. campus. Then we took US 195 to Spokane.

LIDICKER
1965

(June 17 cont.)

Then US 10 to Coeur d'Alene, Ida. where we spent the night at the Lakeview motel. Rain almost all day & most of it hard.

June 18

Went N on US 95 to Brit. Columbia border at Eastport. Just S of Eastport we looked at a DOR grouse (sooty type). B.C. 95 to BC. 3 & then east to Alberta. Along the Kootenay R. we saw a snipe sitting on a fence post. In Alberta we continued on highway 3 to Medicine Hat where we spent the night at the Trans-Canada motel. Rained part of the day, especially latter half.

June 19

Cont. E on highway 1. 4 mi. W of Walsh, Alb., we saw 8 pronghorns (not in 1 spot but scattered over sev. miles); also saw 2 killdeers & 2 common terns. Near Piapot, Sask., we saw 3 more pronghorns. 7 mi. W of Caronport, Sask. we stopped to examine a DOR porcupine & saw the skull (#2916); this was the second one seen, the first being in W. Sask. Caronport is certainly a 13 mi by road W. of Moose Jaw. Two habitat photos were taken around where porcupine was found. Went on for a Moosomin (Cree word for crossing of the trails),

Chestnut-collared longspurs & numerous ducks also seen along the street

LIDICKER
1965

(June 19 cont.)
Sask., where we stayed overnight in a motel.
Scattered rain throughout the day.

June 20

Looked around motel in AM before leaving east again. Saw: Baltimore oriole
house wren
song sparrow
Clay-colored sparrow - 1 ?
Grasshopper sparrow - heard only
Black tern
least flycatcher
C. cowbirds
ovr. warbler songs heard

Cont. on highway 1 to Winnipeg. From about Regina on scrubby clumps of aspen & ~~[illegible]~~ birch began to appear on the prairie. These clumps got gradually less scrubby & 10 mi. E of Moosomin we saw a few conifers begin to appear among the gray birches & about that time we also saw a few white birches. 7 miles before highway 1 junction with Maint. 34 we stopped & had lunch along the side of the road. Here we saw Indigo bunting, gopher sign & a 13-lined ground squirrel. We arrived in Winnipeg late in the afternoon & went to the Fort Garry Hotel where the meetings

✓ CHECK LIST

of the

BIRDS OF MANITOBA

Prepared By

THE DEPARTMENT OF MINES AND NATURAL RESOURCES
CONSERVATION EDUCATION SECTION

In Cooperation With

THE MANITOBA MUSEUM
and
THE NATURAL HISTORY SOCIETY OF MANITOBA

- This list provides a convenient means of recording field observations. It will guide the student as to what species may be encountered in Manitoba.

EXPLANATION OF SYMBOLS

N. Northern - primarily tundra and arctic coast.
N.C. Recorded annually but not common.
V. Casual Visitor - many sporadic records.
R. Rare, but has been recorded.

.....Common Loon
.....Arctic Loon N.
.....Red-throated Loon N.
.....Red-necked Grebe
.....Horned Grebe
.....Eared Grebe
.....Western Grebe
.....Pied-billed Grebe
.....White Pelican
.....D'ble-crested Cormorant
.....Great Blue Heron
.....Cattle Egret R.
.....Common Egret V.
.....Blk.-crown. Night Heron
.....Yel.-crown. Night Heron
.....Least Bittern N.C.
.....American Bittern
.....Whistling Swan
.....Canada Goose
.....Brant V.
.....Black Brant V.
.....White-fronted Goose
.....Lesser Snow Goose
.....Blue Goose
.....Ross' Goose V.
.....Mallard
.....Black Duck N.C.
.....Gadwall
.....Pintail
.....Green-winged Teal
.....Blue-winged Teal
.....Cinnamon Teal R.
.....European Widgeon R.
.....American Widgeon
.....Shoveler
.....Wood Duck N.C.
.....Redhead
.....Ring-necked Duck

.....Canvasback
.....Greater Scaup
.....Lesser Scaup
.....Common Goldeneye
.....Barrow's Goldeneye R.
.....Bufflehead
.....Oldsquaw N.
.....Harlequin Duck R.
.....Common Eider N.
.....King Eider N.
.....White-winged Scoter
.....Surf Scoter N.
.....Common Scoter N.
.....Ruddy Duck
.....Hooded Merganser
.....Common Merganser
.....Red-breasted Merganser
.....Turkey Vulture
.....Goshawk
.....Sharp-shinned Hawk
.....Cooper's Hawk
.....Red-tailed Hawk
.....Broad-winged Hawk
.....Swainson's Hawk
.....Rough-legged Hawk
.....Ferruginous Hawk V.
.....Golden Eagle
.....Bald Eagle
.....Marsh Hawk
.....Osprey
.....Gyrfalcon N.
.....Prairie Falcon N.C.
.....Perigrine Falcon
.....Pigeon Hawk
.....Richardson's Merlin N.C.
.....Sparrow Hawk
.....Spruce Grouse
.....Ruffed Grouse

.....Willow Ptarmigan N.
.....Rock Ptarmigan N.
.....Gtr. Prairie Chicken R.
.....Sharp-tailed Grouse
.....Ring-necked Pheasant
.....Grey Partridge
.....Whooping Crane R.
.....Sandhill Crane
.....King Rail R.
.....Virginia Rail
.....Sora
.....Yellow Rail
.....Common Gallinule R.
.....American Coot
.....Semipalmated Plover
.....Piping Plover
.....Killdeer
.....American Golden Plover
.....Black-bellied Plover
.....Ruddy Turnstone
.....American Woodcock V.
.....Common Snipe
.....Long-billed Curlew R.
.....Whimbrel N.
.....Upland Plover
.....Spotted Sandpiper
.....Solitary Sandpiper
.....Willet
.....Greater Yellowlegs
.....Lesser Yellowlegs
.....Knot
.....Purple Sandpiper R.
.....Pectoral Sandpiper
.....White-rumped Sandpiper
.....Baird's Sandpiper
.....Least Sandpiper
.....Dunlin
.....Dowitcher
.....Stilt Sandpiper
.....Semipalmated Sandpiper
.....Buff-breast. Sandpiper V.
.....Marbled Godwit
.....Hudsonian Godwit
.....Sanderling
.....American Avocet N.C.
.....Red Phalarope N.
.....Wilson's Phalarope
.....Northern Phalarope

.....Pomarine Jaeger N.
.....Parasitic Jaeger N.
.....Long-tailed Jaeger N.
.....Glaucus Gull N.
.....Herring Gull
.....California Gull R.
.....Ring-billed Gull
.....Franklin's Gull
.....Bonaparte's Gull
.....Ivory Gull R.
.....Sabine's Gull R.
.....Forster's Tern
.....Common Tern
.....Arctic Tern N.
.....Caspian Tern
.....Black Tern
.....Thick-billed Murre N.
.....Dovkie R.
.....Mandt's Guillemot N.
.....Ancient Murrelet R.
.....Mourning Dove
.....Yellow-billed Cuckoo R.
.....Black-billed Cuckoo
.....Barn Owl R.
.....Screech Owl
.....Great Horned Owl
.....Snowy Owl
.....Hawk-Owl
.....Burrowing Owl
.....Barred Owl
.....Great Grey Owl
.....Long-eared Owl
.....Short-eared Owl
.....Boreal Owl
.....Saw-whet Owl
.....Whip-poor-will
.....Common Nighthawk
.....Chimney Swift
.....Ruby-thtd. Hummingbird
.....Rufous Hummingbird R.
.....Belted Kingfisher
.....Yellow-shafted Flicker
.....Red-shafter Flicker R.
.....Pileated Woodpecker
.....Red-bel'd Woodpecker V.
.....Red-headed Woodpecker
.....Lewis' Woodpecker R.
.....Yellow-bellied Sapsucker

.....Hairy Woodpecker
.....Downy Woodpecker
.....Blk.-bkd. 3-toed Wdpkr.
.....Northern 3-toed Wdpkr.
.....Eastern Kingbird
.....Western Kingbird
.....Scis.-tail. Flycatcher R.
.....Great Crested Flycatcher
.....Eastern Phoebe
.....Say's Phoebe R.
.....Yel.-bellied Flycatcher
.....Traill's Flycatcher
.....Least Flycatcher
.....Eastern Wood Pewee
.....Western Wood Pewee
.....Olive-sided Flycatcher
.....Horned Lark
.....Violet-green Swallow R.
.....Tree Swallow
.....Bank Swallow
.....Rough-winged Swallow
.....Barn Swallow
.....Cliff Swallow
.....Purple Martin
.....Grey Jay
.....Blue Jay
.....Steller's Jay R.
.....Black-billed Magpie
.....Common Raven
.....Common Crow
.....Clark's Nutcracker R.
.....Black-capped Chickadee
.....Boreal Chickadee
.....White-brstd. Nuthatch
.....Red-breasted Nuthatch
.....Brown Creeper
.....House Wren
.....Winter Wren
.....Carolina Wren R.
.....Lng.-billed Marsh Wren
.....Sht.-billed Marsh Wren
.....Rock Wren R.
.....Mockingbird V.
.....Catbird
.....Brown Thrasher
.....Robin
.....Varied Thrush R.
.....Wood Thrush R.

.....Hermit Thrush
.....Swainson's Thrush
.....Grey-checked Thrush
.....Veery
.....Eastern Bluebird
.....Mountain Bluebird
.....Townsend's Solitaire R.
.....Gold.-crowned Kinglet
.....Ruby-crowned Kinglet
.....Water Pipit
.....Sprague's Pipit
.....Bohemian Waxwing
.....Cedar Waxwing
.....Northern Shrike
.....Loggerhead Shrike
.....Starling
.....Yellow-throated Vireo
.....Solitary Vireo
.....Red-eyed Vireo
.....Philadelphia Vireo
.....Warbling Vireo
.....Black and white Warbler
.....Golden-winged Warbler
.....Tennessee Warbler
.....Orange-crowned Warbler
.....Nashville Warbler
.....Parula Warbler R. 1 dead
.....Yellow Warbler
.....Magnolia Warbler
.....Cape May Warbler
.....Blk.-thtd. Blue W'bler V.
.....Myrtle Warbler
.....Blk.-thtd. Green W'bler
.....Cerulean Warbler R.
.....Blackburnian Warbler
.....Chestnut-sided Warbler
.....Bay-breasted Warbler
.....Blackpoll Warbler
.....Pine Warbler
.....Palm Warbler
.....Ovenbird
.....Northern Waterthrush
.....Connecticut Warbler
.....Mourning Warbler
.....Yellowthroat
.....Yellow-breasted Chat R.
.....Hooded Warbler R.
.....Wilson's Warbler

.....Canada Warbler
.....American Redstart
..X..House Sparrow
.....Bobolink
..X..Western Meadowlark
..X..Yellow-headed Blackbird
..X..Redwinged Blackbird
.....Orchard Oriole V.
..X..Baltimore Oriole
.....Rusty Blackbird
.....Brewer's Blackbird
..X..Common Grackle
..X..Brown-headed Cowbird
.....Western Tanager R.
.....Scarlet Tanager
.....Cardinal V.
.....Rose-breasted Grosbeak
.....Blk.-headed Grosbeak R.
..X..Indigo Bunting
.....Lazuli Bunting R.
.....Dickcissel V.
.....Evening Grosbeak
.....Purple Finch
.....Pine Grosbeak
.....Grey-crown. Rosy Finch R.
.....Hoary Redpoll
.....Common Redpoll
.....Pine Siskin
..X..American Goldfinch

.....Red Crossbill
.....White-winged Crossbill
.....Rufous-sided Towhee
.....Lark Bunting
.....Savannah Sparrow
.....Grasshopper Sparrow
.....Baird's Sparrow
.....Leconte's Sparrow
.....Sharp-tailed Sparrow
.....Vesper Sparrow
.....Lark Sparrow
.....Slate-colored Junco
.....Oregon Junco V.
.....Tree Sparrow
.....Chipping Sparrow
.....Clay-colored Sparrow
.....Field Sparrow R.
.....Harris Sparrow
.....White-crowned Sparrow
.....White-throated Sparrow
.....Fox Sparrow
.....Lincoln's Sparrow
.....Swamp Sparrow
..X..Song Sparrow
.....McCown's Longspur R.
.....Lapland Longspur
.....Smith's Longspur N.
.....Chestnut-coll. Longspur
.....Snow Bunting

DATE 20 June – 25 June, 1965

• NOTES •

• NOTES •

LIDICKER
1965

(20 June cont.)
of the Amer. Soc. of Mammalogists were to be held.
So far we travelled 2292 miles.

June 21-23
ASM. meetings - Fort Garry Hotel.

June 24
Went on field trip to the Delta Waterfowl Refuge. Saw very few ducks. Noted:

Purple Martin
Long-billed marsh wren
Sora Rail
Forster's tern
Killdeer
W. Kingbird
E. Kingbird
Yellow Warbler
Black terns
Catbird

(see attached checklist for other bird species seen in Manitoba.). We returned to Winnipeg about 5:30 pm. & by 6 pm we were on the road to the south (Manit. 75). In Emerson, just above the U.S. border, we camped for the night; it was warm & very buggy. but our tent provided a haven. While at Delta we also saw the pair of captive Trumpeter Swans & brood of yg that they have there.

LIDICKER
1965

June 25

We broke camp, crossed the border & went S. on US. 75. At Donaldson, Minn., we turned W on Minn. 11, crossed the Red R. into N. Dak., cont. W. on N. Dak. 66, then S. on US. 81 to Grafton, then W again on N. Dak. 17 to jct. w/ N. Dak. 18 & S. on this to US. 2. Where N. Dak 18 crosses the Forest River (Grand Forks Co.), we stopped for lunch. It was very windy & overcast. This is an area of tall grass prairie w/ scattered rows of trees; grass is 3-4 ft. tall in many places (took 3 photos). Birds seen:

Clay-colored Sparrow - com. (song heard; seen feeding on insects including small caterpillars on shrubs & small trees adjacent to grass).

Song Sparrow	House Wren
meadowlark	Belted Kingfisher
Yellow Warbler	Goldfinch
E. Phoebe	Robin
Barn Swallow	Redwing
Red-tailed Hawk	Chimney Swift

brown-backed swallow of some sort.

Lakota, N.D. - Ring billed gull - 1 (Franklin's gulls have been fairly com. for last 30 miles).

LIDICKER
1965

(25 June cont.)

English sparrow — Black tern
marsh hawk — barn swallow

We also saw a ground squirrel (not 13-l.)
Two miles after we got back on US. 2 we saw what must have been a prairie chicken fly off the side of road. Continued on to Williston where we spent the night (Rustic Inn motel). Rain on & off during day, especially afternoon.

June 26

After leaving Williston we went S on US 85 to see the Missouri R.; only bird of interest seen was Lark Sparrow; then returned to US 2 & cont. westward. 9 miles before the Montana state line, we encountered a colony of Chestnut-collared longspurs. A ♂ longspur was seen feeding a full grown yg. Just W of Poplar, Montana, we saw an Upland Plover. Made a lunch stop in a short-grass prairie area (101 miles from the state line; 58 mi. E of Hinsdale & 101 miles from Malta). Here we saw:

Brewer's blackbirds - feeding yg. (carrying food to nest)
Red-wing
meadowlark — Lark bunting
E. kingbird — Vesper Sparrow - 2
Horned lark — Clay-colored Sp. - 1

LIDICKER
1965

(June 26 cont.)

Sparrow Hawk Ring bl. or Calif. type gull
40 miles E of Hinsdale we saw our first
black-billed magpie for the trip west.
13 miles before Malta we saw a pronghorn.
At the Bowdoin Lake Wildlife Refuge
we saw: Baldpate eared grebe
blue-winged teal coot
gadwall willet
mallard avocet
Wilson's phalarope red-wing
yellow-headed blackbird Brewer's blackbird
lark bunting horned lark
ring-billed gull Redhead
Pintail Franklin's gull
Canvasback lesser scaup
meadowlark bank swallow
E. kingbird.

13 miles past Dodson we found a large (10") painted turtle that had been hit by a car & also a DOR yellow-shafted flicker
Rain on & off most of afternoon. Continued on to Shelby where we spent the night.

June 27

16 miles W of Cut Bank, Montana, saw
bank swallow Brewer's blackbird
chestnut-collared longspur +

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1965

(June 27 cont.)

saw incident. longspurs

→ Savannah Sparrow 3 photos at this spot. vesper sparrow

6 miles further we stopped again & identified

McCown's longspur (a colony of them)

Crow

Vesper Sparrow, Lark ~~bunting~~ Sparrow.

Dr Browning, we turned N US. 2 onto US. 89.

9 miles from Browning we saw a large ground squirrel which was probably C. columbianus.

Cont. on US 89 to St. Mary where we entered Glacier Nat'l. Park, & went over Logan Pass. It was very windy, cold, & with much rain & snow, making observations difficult. We took a few photographs anyway. We did not see any mt. goats. We went through Apgar & set up camp in the Fish Creek Campground. More rain during evening and night. Citellus columbianus is common in campground; also saw a few chipmunks (amoenus or minimus) & Tamiasciurus.

June 28

Broke camp & headed NW on the North Fork Rd. toward Bowman Lake. Stopped at a place called Lone Pine Prairie to have lunch, bird, & take 2 photos. This spot is 24 miles from Fish Cr. Campground ~ 9 miles from Lake Bowman. C. columbianus was common in this meadow but seemed to be scattered

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1965

(June 28 cont.)

in small colonies (4 or 5 burrows); no microtine sign found in this very lush meadow. Also saw:

violet-green swallow	Ore. Junco
chipping sparrow	W. Wood-pewee
yellowthroat	+ unident. flycatcher
olive-backed thrush	flicker
unident. woodpecker call	oriole or W. Tanager

Set up camp at the Bowman Lake campground which had only a few other campers in it. Hard rain almost all night.

June 29

Broke camp in the rain, which continued all morning. Returned to Agate & left the Park.

Mammals seen in park:

Odocoileus hemionus - many seen; ♂♂'s in velvet; most seem to be molting; 2 seen swimming in a small vegetation filled lake near Bowman Lake at dusk of June 28. (this lake looked more like a meadow than a lake from a distance).

Cervus - elk sign - droppings & tracks seen only.

Ursus americanus - 2 black bears seen (1 black on S side of Lake McDonald on road & begging & 1 brown very worn one on N Fork Rd.)

Citellus columbianus - common

Eutamias (amoenus or minimus) - few; looked

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(June 29 cont.)

like minimus but were in forested areas (both conspecifics).

Castor - 2 beaver lodges seen along N. fork Rd.

Citellus lateralis - seen not in Park but at lunch spot near Coram just out of Park.

Tamiasciurus hudsonicus - freq., common at Bowman's Lake.

Birds seen in Park:

Com. Loon - 1 pair + 2 downy yg.

Amer. Merganser - ♀ + 5 downy yg. on Lake McDonald + 1 ♂ on Bowman Lake

Ruffed Grouse - drumming heard on sev. occasions

C. Nighthawk - seen only outside of Park nr. Coram

Belted Kingfisher

Red-sh. Flicker

Hairy Woodpecker

Pileated " - heard only?

Empidonax - com. - probably hammondi

W. Wood Pewee

E. Phoebe - 2

violet-gr. swallow

barn swallow

cliff "

Com. crow

blk-capped chickadee

Dipper - 2

Com. raven

Steller's Jay

Gray Jay - adult + juv.

Red br. Nuthatch

Robin - abund.

L. Dickson
1965

(June 29 cont)

Olive bk. Thrush - abun. Townsend's Solitaire - 1
Cedar Waxwing - W. Glacier only
Red-eyed Vireo - 1
E. Redstart - heard freq. & 1 seen
Wilson's Warbler - 1 heard only
Yellowthroat - scar.
Audubon's Warbler - 1
Orange cr. Warbler - heard?
+ many unident. warbler songs
Red-wing
Brewer's Blackbird - E side of Park only
W. Tanager - 1 fairly seen
Ore. junco - abund.
chipping sparrow
fox sparrow

Took U.S. 2 to jct. w/ Mont. 35 & then S. along E. side of Flathead Lake. Stopped at Mont. St. U. Biol. Sta. on Lake & visited for several hours, particularly with: Richard Solberg - director & botanist
Frank Richardson - of U. Wash.
Paul Lukkens - teaching mammalogy course & from Wisc. St. Coll in Superior (former student of W.B. Davis & Jim Bear; interested in mammals in arch. exhibits).

Then we continued on S to Missoula. On the way we stopped briefly along the road to look

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1965

(June 29 cont.)

at the Nine Pipe Natl. Wildlife Refuge. Here we saw: Horned grebe – 1 (in breeding plumage)

West. grebe – sev.

Gt. blue Heron

Red head – com.

Mallard

Coot.

Gadwall

We arrived in Missoula ~ 1830 & went to Bob & Sally Hoffman's house where we stayed overnight.

June 30

Visited Hoffmans & Univ. of Montana. Saw Phil Wright & met Dick Taber. Left town ~1830 & drove to Hamilton (S. on US. 93) where we spent the night in a motel.

July 1

Cont. S. on US. 93 & crossed Bitterroot Mtns. into Idaho. Saw 2 Marmots flaviventris near pass. 10 mi. N of jct w/ side road to May we saw a pronghorn. 2 miles before Stanley (NE) we saw a colony of ground squirrels which were similar to columbians but paler; we found one individual dead on the road & since it was in good condition we saved it (#2917); it was a ♂ not in breeding condition. Near top of Galena summit we saw a DOR M. flaviventris. 4 miles S of Ketchum we

L IDICKSOR
1965

(1 July cont.)
saw another colony of what appeared to be the same ground squirrel as picked up near Stanley. 15 mi. N of Twin Falls we saw a Burrowing Owl. It was raining practically the whole time we were crossing through the mountains. Continuing S on US 93 to Wells, Nevada. 34 mi. S of Jackpot we saw another Burrowing Owl.
From Wells we went 13 mi. up a dirt road to Angel Lake in the East Humboldt Range & made camp ~ 2130 - just after dark.

July 2
Spent early AM birding around camp & then went slowly down mt. arriving back in Wells ~1130. Mammals seen from Wells to Wells:

Mustela - prob. erminea as appeared smaller bodied than a nearby Citellus, & white ventrally; in sage brush only a few mi. above Wells.

Citellus sp. (townsendi ?) - same sport as weasel; pale gray, light tail, short but bushy.

Eutamias minimus - sev. seen in sage brush.

Citellus sp. (richardsoni ?) - in outskirts of Wells - sev. seen very well; lg. squirrel, lt. gray brown with slight speckling on back; fulvous on nose, wrists, fore limbs & very lightly on ventral; tail white edged;

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1965

(July 2 cont.)

calls like columbianus (including descending trill as it disappears down burrow).

Citellus lateralis - com. around Angel Lake.

~~Entoll~~ Eutamias (presumably quadrivittatus) - occ. seen around Angel Lake; mod. large & fairly pale.

Lepus californicus - com. below trees

Also lots of under-snow runways seen.

Birds seen from Wells to Wells:

Sage Thrasher - com. - lower slopes

Bendire's Thrasher - 1 seen in dry sage; light reddish brown dorsally & on tail, yellow eye; very faintly spotted breast (almost clear breast) no white on tail; bill like sage thrasher.

Horned Lark

Mourning dove

N. nighthawk - common. (1 heard & seen in daylight)

2 uni. dent. hawks (light)

turkey vulture (low)

red-sh. flicker

sapsucker

Lewis's woodpecker

Lava wren

rock wren (med. elev.)

robin

olive-backed thrush (end of song weaker than in Montana)

yellow warbler (com.)

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(July 2 cont.)

MacGillivray's Warbler – com.

Audubon's Warbler – 1

Orange cr. Warbler – heard only? (according vocal trill)

Empid: Dusky – grayish, longish tail; song single "tshlip" – in aspen thickets & brush around Angel Lake.

Olive-sided Flycatcher – com. on higher slopes where there are scattered conifers.

Carpodacus sp. (prob. cassinii) – distinct face pattern noted.

Pine siskin

Fox sparrow – com. & singing

White-cr. sparrow – freq. – song ends w/high thin "zeeee".

Brewer's sparrow – com. on sage slopes.

Junco – heard only.

Warbling vireo – 1

lg. owl seen while driving up slope in dark ~~[illegible]~~ meadowlark (lower slope)

Broad-tailed hummingbird – ♂ heard?

Proceeded W on US 40. 17 mi. before Elko we saw a Swainson's Hawk. Arrived in Reno about 1900. Visited with FSL.

July 3

Left Reno ~ 1900; ar. Berkeley 2330. Total miles for trip: 4788.

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1966

Birds seen in Japan, 21 Aug. to 11 Sept.

Phalacrocorax sp. - probably capillatus -
Terasaki's comment as seen at Pt.
Notoro, Hokkaido.

Garia sp. - Pt. Notoro

Grus japonensis - Japanese Crane. Kushiro
Crane Park - 3 captives + ~4 wild birds

Larus spp. - rivers & seacoast of Hokkaido.

? Ardea cinerea - gray heron; flock seen
Notoro Lagoon, Hokkaido

Butaeo buteo - buzzard Hokkaido

? Circus aeruginosus - marsh harrier - Hokkaido

Milvus migrans - black kite - com. in Hokkaido

Chaetura caudacuta - needle-tailed swift.
large colony: Hokkaido (S. of Sounkyo Spa)

Corvus levaillanti - gingle crow } not distinguished
C. corone - carrion crow }

Hirundo sp. - com. Honshu

Delichon urbica - house martin - com. Hokkaido

Aegithalos caudatus - long-tailed tit
(telephone wires - Hokkaido)

Sitta europaea - European Nuthatch - Lake
Mashu, Hokkaido

Motacilla alba - pied wagtail - Pt. Notoro

? M. grandis - Japanese wagtail - Lake Akan

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1966

(birds seen in Japan cont.)

Zosterops palpebrosa - Japanese white-eye
(captivity only)
Passer montanus - tree sparrow; com.
? Pyrrhula pyrrhula - bullfinch (seen on wires).

Oct. 23

Monterey Bay Pelagic Trip

Organized by Peter Ames & consisting of 15 people (5 from his extension class in ornithology) & including also Marshall White, Bill Arvey, Bob Raikow, & Bob Hamilton. Boat named Tage. Left from Monterey about 0930, went W along S shore of Bay to open ocean & then N toward Sta. Cruz, returning in a SSE direction toward S side of Bay & then E to harbor. Reached 1630. Clear sunny day with tremendous swells along S side of bay in AM, lessening later & northward, but sea fairly rough all day.

Bird list for Monterey Bay only:

Loons - several seen, all were either Common or Arctic, probably former.
W. Grebe - 1 (harbor)
Fulmar - 15+ (both color phases, but mostly dk.; 2+ dead fulmars seen)
Pink-footed Shearwater - ~30

(cont.)

LIDICKER
1966

Oct. 23 (cont.)

Pale-footed Shearwater - ~4
New Zealand " - ~12
Sooty " - ~100
Leach's Petrel - 1 seen by some of group but not me
Wilson's Petrel - 1 claimed to have been seen by Hamilton
Ashy Petrel - 40 ±
Black Petrel - 30 ±
Brown Pelican - 30 ±
Brandt's Cormorant - 25 ±
(2 cormorants were seen flying which seemed to have yellow gular sacs + were possibly Double-crests).
ducks - a few were seen but unidentified; 1 group seemed to be dabblers migrating over the Bay.
Amer. Coot - 10 ± around Larkin
Semipalmated Plover? - small group seen flying at sea
Sanderling - 8 ± beach by Larkin
Red Phalarope - 80 ± but many phalaropes remained unidentified + Northerns could have been seen
Pomarine Jaeger - 6 +
Parasitic Jaeger - 2 +
Skua - 1 claimed to have been seen
Glaucous-winged Gull - 2 (Larkin)
Western Gull - abund.
Herring Gull - ~30 - seen frequently with Wf shore, but none seen close to shore
California Gull - ~20

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1966

Oct. 23 (cont.)

Ring-billed Gull - 30±
Bonaparte's Gull - 10±
Heermann's Gull - abund.
Elegant Tern - 20± (near shore only)
Com. Murre - 10±
Cassin's Auklet - 50±
Rhinoceros Auklet - 12±

Also saw: Sea Otter - 1 (near tutor)
sev. whales
sea lion (mostly N.) - abund. near shore + also a number seen off shore
Elephant seal? - sev. possibly seen
Dall Porpoise - 6+

sev. large sharks also seen.

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1967

Point Reyes Trip

with Clinton H. Conaway & S. B. Benson

May 27

Conaway & I left Berkeley about 0935, crossed Golden Gate Bridge & took road to Pt. Bonita, through Forts Baker & Barry. The large valley which the road follows looks in very good shape, & likely place to trap for Nemorichnus, Sowa, & Zapus. Next we investigated the Tenn. Valley (Elk Valley) Rd. to the North. It is pretty well built up & over-grazed as far as we could go; we ran into private roads before we could get as far as Ft. Cronkhite. Then we briefly visited Muir Woods, had lunch in Bolinas, & then continued on to Inverness. We checked into the Inverness motel (~ 3/4 mi. S Inverness) at 1212 at site for the 2 of us. Then we explored out Pt. Reyes to the lighthouse, went to Drake's Beach, & returned to Benson's place at 1645. Benson's is 1 mi. by rd. S. of Inverness (1 mi. SE Inverness). The 3 of us set ~ 40 snap traps in the dense forest on Benson's property, especially setting for shrews in the fern clumps, under rotten logs etc. Then we went to smooth new top of ridge where road crosses ridge on way to Pt. Reyes (2 mi. W, 0.8 mi. N Inverness, 300 ft.). Here we set about 50 Mus. spicus & 20 Longworth live traps. Then we drove out the new Park Rd. to "Pt. Reyes Beach North",

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May 27 cont.

I walked NE about ¼ mi. & set 15 Mus. spec in a swale & along a creek only a few 100 yds. above the beach. Back at Benson's we set 10 Longworth's in the woods & around a wood pile. Christ & I saw a few of the traps set earlier, & had 1 Eutamias allenii in a trap set by Benson at the end of a well-rotted log (trap set for a shrew). This chipmunk appears to be behaviorally very inconspicuous & is not vocal as is typical of chipmunks. It was a ♂ in reproductive condition. Had dinner with Benson's before returning to our motel.

May 28

Had breakfast in Pt. Reyes Station, then returned to Benson's about 08:15 & I checked my traps there. Came up with quite a few Peromyscus maniculatus nubiles, many traps were sprung, & many of the live traps were torn open — apparently by raccoons. Benson saw another chipmunk investigating one of his traps. Then we went to our traps near the beach (6 mi. NE Pt. Reyes). Here we had 1 Zapus trinotatus, 1 Microtus, & 1 Peromyscus maniculatus. At our main trapping area in the swale along the ridge we had quite a few Microtus, 1 Zapus, 1 Sorex vagrans, 2 Sorex trowbridgii (including a juv. taken in a live trap). Conaway picked the shrews. I saved only 1 Zapus & 2 P. maniculatus for skinning. Conaway & I left Inverness about 11:15

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1967
+
1968

(May 28 cont.)

& drove N. to Occidental where we had lunch in the Union Hotel. Then we continued to Monte Rio on the Russian R. We were impressed with the sharp transition between open grassland & brush habitats (scattered clumps of trees in places), & the Douglas Fir forests which started just N. of Freestone. We returned to Occidental, then to Graton, Sebastopol & on to US 101 at Cotati, & then home. Arrived about 1645.

Along the ridge above (east) of Drake's Estero we found several active Aplodontia burrows with cuttings etc. They were in thickets bordering vegetation on the N faces of the ridges.

Inverness Peromyscus trip with Wayne C. Packer
6-7 September, 1968

6 Sept. Left about noon in MVZ camper. We took the road from San Rafael via S.P. Taylor St. Pk., looking for likely places to trap for Peromyscus maniculatus rubidus. Stopped briefly at Benson's place (1 mi. SE Inverness) to assess the situation for trapping & camping: spoke briefly to a neighbor. Proceeded N of Inverness to S edge of Tomales Bay State Park. (turn off on rd. near coast, after main road turns W to Pt. Reyes, called something like "Camino del Mar") At the

LIDICKER
1968

6 Sept. cont.

end of this road there is a fence & a trail to Shell Beach. From about 1415-1515 we set 45 Longworth live traps in this area. Explored N toward McClures' Beach including road into Tomales Bay St. Pk. Returned to main road to Pt. Reyes. Set 20 Longworth's (1600-1630) on edge of streamside thicket near site of old blacksmith shop (3 mi. W, ½ mi. S Inverness, Marin Co.). There were willows, nettles, & brambles. Microtus sign was abundant in the adjacent meadow & several individuals were seen. Returned to Bensons & set 45 Longworth's (~1645-1735) in the woods behind his house.

7 Sept.

Relatively warm, humid night for this area.

Catch at Bensons: Sorex - 1 (WZL # 2986)
Microtus - 2 (incl. 1 juv.)
Peromyscus - 4 (388:, 7)

S. edge Tomales Bay St. Pk.:
Sorex - 2 (both released alive)
Microtus - 4
Peromyscus - 5

blacksmith shop site:
Microtus - 7 & many others seen.

As the Tomales Bay Pk. site at least is trees were torn open by woodrats (judging from proximity

LIDICKER
1968

Sept cont.

(active woodrat houses), so that more Peromyscus would undoubtedly have been caught otherwise.

Returned home S.P. Taylor Pk. where we stopped to have lunch.

Placed 4 ♂♂ & 4 ♀♀ ~~[illegible]~~ M. californicus in separate cags; the other 5 were killed. The Peromyscus were also placed: separate ~~[illegible]~~ cags. Later 2 of the killed mice were skinned (WZL # 2987 & 2988). The other 3 were autopsied & discarded:

1 mi. SE Inverness, Marin Co. —

a) juv. ♀, 18.7 g. 129-33 perf.; P. pseud.; N. tiny; milliferous; ovaries with small to med. follic. only.

S. edge Tomales Bay St. Pk., 1½ mi. NW Inverness —

b) ad. ♀ 29.6 g. 155-38 imp.; P. pseud.; N. tiny +. milliferous; ovaries with small follic. + tiny corp. only.

3 mi. W, ½ mi. S. Inverness —

c) ad. ♀ 35.7 g. 162-38 imp.; P. d. sep.; N. tiny +; 3 faint pl. scars in right horn, 1 in left horn. Horns 1+ mm. wide; ovaries completely inactive.

On 17 Sept., introduced 3 ♂♂ + 3 ♀♀ of this group of M. californicus into pit B at the Berk. Site. (dof. pit. exp #5).

On 28 Sept. killed remaining two individuals (both are from 3 mi. W, ½ mi. S Inverness. Autopsied & discarded the ♂; skinned the ♀ (WZL # 2989).

d) ad. ♂ 40.7 g. 173-45 test. not desc.; scrot. not pigm.; no molt, scars or paras.

testes 4½ x 2½ mm.; et. not visible; S.V. 3 mm

Lidicker, W. Z.

1969

catalogue

3001 – 3217

california

New Guinea

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1969

Brooks Island, Contra Costa Co., Calif.
11 April

3001. ♀ Microtus californicus 40.4 g. 170-48-20-13
3002. ♂ " " 61.3 g 203-54-22.5-14
3003. ♂ " " 70.9 g 201-53-23-15
3004. ♀ " " 56.3 g. 186+-44+-23-15
3005. ♂ " " 51.7 g. 188-51-23-14
3006. ♀ " " 48.7 g. 184-49-21.5-13.5
3007. ♂ " " 55.7 g 158+-14+-22.5-15
3008. ♂ " " 56.3 g 197-57-23.5-14
3009. ♂ " " 51.5 g 196-56-22.5-13.5

Sampin, 13 mi. N. Madang, New Guinea
18 July

AH # 4982 carcass frozen 1 emb. x 30 mm. FA 85
3010 ♀ Rousettus amplexicaudatus 91 g. 150-17-22-21
AH # 4984 carcass frozen test. 8 x 6 mm. FA 39
m, c 3011 ♂ Macroglossus 18.8 g. 80-0-11-15
AH. # 4985 carcass frozen 1 emb. x 7.5 mm. FA 58
m, c 3012. ♀ Nyctimene 26 g. 105-16-13-14

Maiwara, 9 mi. N. Madang, New Guinea
19 July

AH. #2503 1 emb. x 29 mm FA 84
m 3013. ♀ Rousettus amplexicaudatus 78.5 g 140-13-19.5-20
AH # 2505 " " 1 emb x 20 mm. 78.5 g 141-16-20-20
m, c 3014 ♀
AH. # 2506 1 emb x 4 mm. FA 42
m 3015. ♀ Syconycteris crassa 14.8 g 67-0-11.5-15
AH # 2507 " " 1 emb x 5 mm. FA 44
m, c 3016. ♀ 15.7 g. 75-0-12-15

20 July

AH 2508 test. desc. 13 x 10 mm. FA 89
3017. ♂ Rousettus amplexicaudatus 104.4 g. 152-17-19.5-20

near Madang, New Guinea - ~ July, 1969
AH 2510 test. 2 x 1 mm. FA 54
3018. ♂ Hipposideros coll. ? 12 g st. dehydr. 105-39-11-18.5

m = marrow cell suspension c = cell culture prepared

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1969

3 mi. S. Sempi, 10 mi. N Madang, New Guinea

3 May

3019. ♂ Paranyctimene — AH 2509 — testes 4½ x 4 mm — coll. by Dawson (U. Mich) — 22 g. — FA 53 — 98 - 15 - 19 - 12

Maiwara, 9 mi. N. Madang, New Guinea

20 July

c 3020. ♀ Syconycteris crassa — AH 2510 — alc. — 16.3 g. — testes 1 x 10 mm. — FA 44 — 76 - 0 - 11 - 17

Admiralty Island, 3/4 mi. NW Alexishafen, Madang District, New Guinea

20 July (killed), caught 21 June (coll. by J. Diamond & R. Suthers)

c 3021. ♂ Dobsonia minor — AH 2512 — testes 6.5 x 5 mm. — 82.5 g — FA 84 — 140 - 10 - 265 - 21

vic. Madang, New Guinea

captured ~12 July, died 15 July

3022 ♂ Echinipsora kalubu (heart & leg muscle removed 16 July) — alc. — AH 2502 — ~260 g — test. 15 x 8 mm; 49 sn — 321 - 64 - 56 - 23

3 mi. S. Sempi, 10 mi. N. Madang, New Guinea

3 May

3023. ♂ Nyctimene — AH 2514 — coll. R. Dawson — testes 5 x 3 mm. — 26 g — FA 54 — 102 - 18 - 14 - 14

3024. ♀ " — AH 2515 — coll. R. Dawson — no embs, parous — 28.3 g — FA 57 — 111 - 18 - 15 - 13

3025 ♀ Syconycteris crassa — AH 2516 — coll. R. Dawson — alc. — 14.5 g — 1 emb x 4 mm. — FA 45 — 73 - 0 - 12.5 - 14.5

vic. Maiwara, 9 mi. N Madang, New Guinea

21 July (captured 17 July)

m 3026 ♂ Phalanger maculatus — AH 2513 — testes 12 x 9 mm. — 1422 g. — 730 - 346 - 67 - 26

Maiwara, 9 mi. N. Madang, New Guinea

21 July (caught 20 July)

c 3027. ♀ Rousettus amplexicaudatus — AH 2517 — alc. — 77.2 g. — 145 - 17 - 23 - 20

Sempi, 13 mi N. Madang, New Guinea

21 July

3028. ♀ Syconycteris crassa — AH 2521 — no embs. — 9.8 g. — FA 41 — 65 - 0 - 13.5 - 14

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Yagaam Sulfur Cave, 5 mi. S, 3 mi. W Madang, New Guinea
July 21

AH 2523 — 1 emb x 23 mm. ~~test. 2 x 1½ mm.~~ — FA-59
3029. ♀ Hipposideros calcaratus — 18.5 g — 110-39-12-20

AH 2524 — 1 emb. x 13 mm. — FA-59
3030. ♀ — 19 g. — 111-37-12.5-20

vic. Sengi, 13 mi. N. Madang, New Guinea
July 22; coll. ~ July 1 (coll.?)

AH 2626 — 1 emb x 3 mm — FA 57
m, c 3031. ♀ Nyctimene — 23.4 g. — 114-22-15-15

died July 22, coll. ~ July 10

AH 2628 — no emb. — FA 43
3032 ♀ Macroglossus — 14 g. — 81-4-13-14

Sengi, 13 mi. N. Madang, New Guinea
July 22

AH 2630 — testes 4 x ½ x 3 mm. — FA 48
c 3033 ♂ Hipposideros galeritis — 8 g. — 82-21-9-14.5

Yagaam Sulfur Cave, 5 mi. S, 3 mi. W Madang, New Guinea
July 22, caught July 21

AH 2631 — testes 7 x 6 mm. — FA 57
c 3034 ♂ Hipposideros calcaratus — 17.3 g. — 114-37-14-22

Sengi, 13 mi. N Madang, New Guinea
22 July

AH 2634 — testes 1 x 1 mm.
c 3035 ♂ Ascalliscus — 3.6 g. — 66-23-7.5-13

AH 2632
3036 ♂ " — 3 g. — 65-22-8-13

AH 2636 — test. 4 x 3 mm.
m 3037. ♂ Hipposideros galeaeritis — 7 g. — 87-30-9.5-14

AH 2637 — test. 4½ x 4 mm.
m 3038 ♂ " " — 7.3 g. — 81-24-9-14

died 23 July, caught 22 July

AH 2638 — no emb. — FA 77
m 3039 ♀ Hipposideros diadema — 24.5 g. — 132-43-18-28

Yagaam Sulfur Cave, 5 mi. S, 3 mi. W Madang, New Guinea
July 23, caught July 21

AH 2639 — alc. — no emb. — FA 58
3040 ♀ Hipposideros calcaratus — 15 g. — 114-41-13-21

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Madang, New Guinea

23 July, captured 22 July

		AH.2640		alc.	1 emb. x 4 mm.
3041.	♀	Rowettus amplexicaudatus		64.8 g.	140-14-23.5-19

Admosin Island, 3/4 mi. NW Alexishafen, Madang District NG.

23 July (killed); caught 21 June

		AH.2641	coll. J. Diamond & R. Suthers		1 emb. x 29 mm.
m 3042.	♀	D. bloomia minor		102.5 g.	151-10-21-21.5

Yagaum Sulfur Cave, 5 mi. S, 3 mi. W Madang, New Guinea

July 23, captured July 21

		AH 2647		alc.	FA 57.5
3043.	♂	Hipposideros calcaratus		16 g.	121-46-13.5-21
		AH 2648			test. 6 x 4.5 mm. FA 58
m 3044.	♂	"	"	16.8 g.	112-36-13.5-22
		AH 2649			test. 2 x 1.5 mm. FA-55
m 3045.	♂	"	"	13.5 g.	111-40-13-20

Sempi, 13 mi. N Madang, New Guinea

July 23

		AH 2861			1 emb. x 4 mm.
3046.	♀	Macroglossus		13 g.	76-3-12.5-14

~~3047~~

July 24

		AH 2862			no emb., parous
3047	♀	Ascalifacus		4 g.	66-19-13-14
		AH 2863			test. 8 x 6 mm.
3048	♂	Syconycteris		16.8 g.	77-0-11-15
		AH 2633			test. 7 x 4.5 mm.
m 3049.	♂	"	(~~[illegible]~~ caught 23 July)	19.7 g.	74-0-12-16
		AH 2855			test. 9 x 6.5 mm.
m 3050.	♂	Macroglossus		12.2 g.	78-2-12-14.5

vic. Sempi, 13 mi. N. Madang, New Guinea

July 24, ~~[illegible]~~ caught 23 July

		AH 2860		alc.	pouch yg.
litter m 3051.	♀	Phalanger	litter mate w/ 3052	113 g.	340-162-33-18
		AH 2646			pouch yg.
3052.	♀	"	litter mate w/ 3051	111 g.	333-156-34-18

Sempi, 13 mi N. Madang, New Guinea

July 24

		AH 2865		alc.	parous, 1 emb x 6 mm. FA 42
lactating 3053.	♀	Macroglossus		14.2 g.	77-1-11-13.5
		AH 2872			1 embr x 3.5 mm. FA 41.5
m 3054.	♀	"		14.8 g.	75-2-12-14.5

LIDICKER
1969

Madang, New Guinea

AH 2866 24 July, capt. 22 July coll. J. Kikkawa alc. w/neonate
3055. ♀ Rousettus amplexicaudatus (died giving birth) 83 g. 149-17-21-20

Sempi, 13 mi. N Madang, New Guinea

July 24

AH 2873 test. 1½ x 1 mm.
m 3056 ♂ Hipposideros diadema 22.2 g. 124-42-17-26.5
AH 2856 no ends, parous
3057 ♀ Macroglossus 15.5 g. 78-2-12-14
AH 2874 " 1 emb. x 11.5 mm.
3058 ♀ 17 g 78-4-12-13
AH 2875 alc. testes 3 x 2 mm.
3059 ♂ " 16.3 g. 80-4-12-14.5

Maiwara, 9 mi. N Madang, New Guinea

July 25

AH 2878 test. 16.5 x 9 mm, disc.
3060. ♂ Rattus exulans 45.5 g 257-127-26-17

Sempi, 13 mi. N Madang, New Guinea

July 25, capt. July 24

AH 2877 alc. 1 emb. x 18 mm
3061. ♀ Sycoryctinis 17.5 g. 76-0-11.5-15.5
AH 2857 parous, no ends.
3062. ♀ " 17.5 g. 78-0-12-16.5
AH 2858 alc. test. 7½ x 5½ mm.
3063 ♂ " 17.8 g. 77-0-11-15.5
AH 2880 alc.
3064. ♀ " baby of 3065 6.8 g. 51-0-11.5-11.5
AH 2879 lact., nt. bam 2.5 mm. wide
3065. ♀ " mother of 3064 19 g. 78-0-11-15

2 mi. S Omaura, Madang District, New Guinea

July

AH 2887 coll. J. Kikkawa alc.
3066 ♂ Macroglossus newborn of ♀ 3067 3.7 g (incl. placenta)
AH 2886 alc! coll. J. Kikkawa with mother
3067 ♀ " mother of 3066 17 g. 83-4-12-15
AH 2899 no ends. coll. J. Kikkawa
m 3068 ♀ Paranyctimene 17.8 g. 87-10-11-12

Wanuma, Adelbert ~~Range~~ mountains, New Guinea, 2000 ft.

July 26

3069 ~~lizard~~ Cyrtodactylis sermowaiensis

LIDICKER
1969

Wanuma, Adelbert Mountains, 2000', New Guinea

July 27

3070.	♀	AH 2901 Macroglossus		10.5 g.	no embs. 70-2-12.5-13.5
c 3071.	♀	AH 2902 Syconycteris		15.5 g.	1 emb. x 14 mm. 73-0-11-16
c 3072.	♀	AH 2903 Macroglossus		15 g.	no embs. 77-4-12-14
3073	♀	AH 2905 Macroglossus	+ young yg (2.2 g w/placenta) caught July 26	17 g.	82-2-12-14.5
3074	♂	AH 2908 Syconycteris	yg. ♀ 3075	9 g.	fest. 1½ x 1 mm 61-0-12.5-13.5
3075	♀	AH 2909 "	mother ♀ 3074	14.5 g.	lact. 77-0-11.5-14

Wanuma, 1950 ft. ~~July 28~~, Adelbert Mountains, New Guinea

July 28

3076.	♂	AH 2910 Syconycteris	cap. July 27	14.5 g	test. desc. 6 x 5½ mm 75-0-13-15.5
3077.	♀	AH 2911 Macroglossus	cap. July 27	17.3 g.	1 emb. x 25 mm. 77-0-12.5-15
c 3078.	♀	AH 2914 Nyctimene		30 g.	no embs. eff. hullip. FA 57.5 119-22-14.5-14.5
3079.	♀	AH 2915 Macroglossus	cap. July 27	18 g.	1 emb. x 23 mm. 76-1-11.5-15

Wanuma, 2200 ft., Adelbert Mtns., New Guinea

July 28

3080. ~~lizard~~ Emoia physicae

Wanuma, 1950 ft., Adelbert Mtns., New Guinea

July 28

3081. ~~lizard~~ Cyrtodactylus sermowaiensis

3082	♂	AH 2920 Macroglossus	~~[illegible]~~	17.5 g.	test. 9 x 7.5 mm 77-0-12-14

~~3083~~

July 29

c 3083	♀	AH 2919 Rousettus	blood sample	82 g.	1 emb x 29 147-13-21-20

W. side Wanuma, 1540 ft., Adelbert Mtns., New Guinea

July 29

3084. ~~skink~~ Sphenomorphis jobiensis

LIDICKER
1969

Wanuma, 2200 ft., Adelbert Mtns., New Guinea
July 30

3085. ~~[illegible]~~ Sphenomorphus jobiensis
Wanuma, 1950 ft., Adelbert Mtns., New Guinea
July 29

AH 2922 tot. 2x1½ in.
3086. ♂ Sycoracis 14 g. 77-0-13.5-14.5
vic. Wanuma, about 2500 ft., Adelbert Mtns., New Guinea
~~July 30~~, capt. July 27

AH 2923 blood sample no sets.
c 3087 ♀ Phalanger (litter with ~~AH 2913~~ 3093) 140 g. 383-184-39-20
Wanuma, 1950 ft., Adelbert Mtns., New Guinea
July 30

AH 2925 tot. 6.5 x 3.5 in. FA 194
3088. ♂ Pteropus 75 g. 300-0-78-29
Gehyra oceanica
3089. gecko lemon yellow ventrally
~~tot. lens~~ no sets FA 185
AH 2924 w. in span = 3(+)¾ in.
c 3090. ♀ Pteropus 79 g. 295-0-63-25
AH 2921 blood sample killed July 31 1 cut. 125 mm
3091 ♀ Paramyctimene 25 g. 97-12-14.5-14
AH 2933 died Aug. 1 1 cut x 12 mm.
3092. ♀ " 23 g 96-13.5-14-14
vic. Wanuma, about 2500 ft., Adelbert Mtns., New Guinea
died July 31, capt. July 27 no sets.
AH 2913
3093. ♀ Phalanger (litter with 3087) 125 g. 354-171-37-20
Wanuma, 2200 ft., Adelbert Mtns., New Guinea
July 31

3094. lemon gecko
Senji Cave, 13½ mi. N, 1½ mi. W Madang, New Guinea
Aug. 1

AH 3087 (coll. by V. Sarich) tot. 3½ x 2 in.
3095. ♂ Oscelliscus 4 g 66-21-8½-14½
AH 3075 (coll. by V. Sarich) 1 cut x 18 mm
3096. ♀ H. Phosiderus galeritus 9.5 g 87.28-10-15.5
AH 3079 (coll. by V. Sarich) tot. 3 x 2 in.
3097. ♂ " " 8.0 g. 83-26-8½-15.5

LIDICKER
1969

Sengi Cave, 13½ mi. N, 1½ mi. E Madang, New Guinea

Aug. 1

3098 ♂ Hipposideros galeritus AH 3088 AH 3083 (coll. V. Sarich) tot. 1½ x 1 in. 7 g. 82-28-9-15 lact., mother of 1 of 2 #3100

3099. ♀ " galeritus AH 3089 8 g (coll. V. Sarich) 86-28-9-15 1 of twin in offspring of #3099

3100. 1♂ + 1♀ " " newborn, 3 g. ea. (coll. V. Sarich)

Maiwara, 9 mi. N. Madang, New Guinea

Aug. 1

3101. ♀ Dobsonia minor AH 3090 96 g. 1 emb. x 34 mm 137-11-23-22.5

Capuchin Seminary, 8¾ mi. N. Madang, New Guinea

Aug. 1

SKULL ONLY AH 2941 tot. 7 x 3½

m 3102. ♂ Echinipsen kalubu 116 g. 232-49-40-22

AH 3106 2 emb. x 7 mm

m 3103. ♀ Melonys 35 g. 232-117-25-15

Sengi, 13 mi. N. Madang, New Guinea

Aug. 3, capt. July 29

AH 2935 1 emb. x 10 mm.

m 3104. ♀ Nyctimene major 86 g. 151-21-20-20.5

2 mi. S Omura, Madang District, New Guinea

Aug. 3, capt. July 25

AH 2891 coll. J. Kikkawa tot. 4½ x 3 mm.

m 3105. ♂ Paranyctimene 21 g. 102-18-14.5-14.5

AH 2942 coll. J. Kikkawa 1 emb x 8 mm.

m 3106. ♀ Dobsonia minor 63 g. 135-8-21-21.5

Capuchin Seminary, 8¾ mi. N. Madang, New Guinea

Aug. 3

AH 2943 4 emb x 18 mm. w/ litter of 7 ser. ch. ov

m 3107. ♀ Rattus exulans 58 g. lact. 272-135-26.5-17.5

AH 3113 tot. 14 x 8 mm

c 3108. ♂ Melonys AH 3114 43.5 g. 236-114-28-14.5

no emb, horns 1½ mm. wide

3109. ♀ Melonys 27 g. 208-102-24.5-14.5

Aug. 4

AH 3115 nullip.

m 3110. ♀ Phalanger orientalis capt. about July 25 248 g. 438-198-40-21.5

AH 3116 4 lg. hitches. no emb.

m 3111. ♀ Phalanger maculatus capt. Aug 3. ~1200 g. 757-383-68-25

LIDICKER
1969

New Guinea

7 mi. S Wewak, 1100 ft.

Aug. 5

3112. ♂ Hipposideros — AH 3629 — 8.5 g. — test. 2×1 mm. — 88-30-11-19

Passam Agric. Sta., 8 mi. S Wewak, 900 ft.

Aug 5

3113. ♂ Rattus — AG 3600 — 95 g. — test. desc., 22×10.5 mm — 328-166-33-19.5

Aug. 6

3114. ♀ Rattus — AH 3684 — 54 g. — nulliparous — 276-141-32-18

3115. ♀ Rattus — AH 3683 — 88 g. — no ends, parous — 328-169-32-19

Wanuma, 2200 ft., Adelbert Mtns.

Aug. 1

3116. ♂ Rattus exulans — AH 2850 — 28.5 g. — test. 10×7 mm. — 212-105-26-13

Aug. 3

3117. ♂ Rattus exulans — AH 2825 — 46 g. — test. 15×8.5 mm. — 250-127-27-15

Aug 6

3118. ♀ Pogonomys — AH 2829 — (1 fr. pl. scar + 1 old scar in other horn) — coll. R. Zweifel — 49.5 g. — mammae 1-2=6 — no ends, lact. — 300-172-23.5-15

Tambul, 7300 ± ft., W. Highlands Dist.

26 July; caught 23 July

3119. ♀ Pogonomys — AH 5683 — (coll. R. Bauer) — 29.5 g. — 2 ends × 5 mm. — 270-156-22-12

vic. Baiyer River, Trauna Valley, 3800 ft.

Aug 7 (captive animal)

3120. ♂ Dactylopsila — AH 5341 — (coll. R. Bauer) — 313 g. — + BODY SKEL. — test. 15×10 mm. — 628-353-49-28

Baitabag Plantation, 3 mi. N Madang

July 25

in 3121. ♀ Ptenopus — AH 2898 — (coll. K. Corbin) — very fat — 780.5 g. — 1 ends × 83 mm. (ends, lacs.) — 272-0-53-36

LIDICKER
1969

New Guinea

Milat Plantation, 6.3 mi. N. Madang

26 July, capt. on July 15

AH 2978 — 6 nipples no visible ends.

3122. ♀ Echimiphora kalubu — 2 pouching lg. — 595 g. — 373-64-60-25

Wanuma, 2200 ft., Adelbert Mtns.

Aug. 7

AH 2844 — + BODY SKEL. — tast. 9×5 mm.

3123. ♂ Murexia — 119 g. — 356-176-37.5-21

Yagaum Sulfur Cave, 5 mi. S 3 mi. W Madang

Aug. 9

AH 2950 — alc. — no ends.

c 3124. ♀ Hipposideros calcaratus — 19 g. — 115-40-13-21

AH 2946 — 1 emb. x 5 mm.

3125. ♀ " — 20 g. — 118-38-12-20

AH 2947 — tast. 2×1 mm.

3126. ♂ " — 18 g. — 112-39-12-21.5

NW side Mt. Giluwe, 8200 ft., W. Highlands Dist.

July 21

AH 5579 — 3 emb. x 7 mm.

3127. ♀ Rattus (coll. R. Baker) — 108 g. — 286-120-33.5-19

Tambul, 7300 ft., W. Highlands District

July 22

AH 5598 — no ends.

3128. ♀ Rattus (coll. R. Baker) — 68.5 g. — 269-116-32-18

Passam Agric. Sta., 8 mi. S Wewak, 900 ft.

Aug. 7

AH 3696 — coll. L. Medway — 1 emb. x 17 mm.

3129. ♀ Emballonura — 9.7 g. — 71-12-10-15

Tranna Valley, 3800 ft., Baiyar River

Aug 12

AH 3306 — 97 — 1 emb. x 24 mm.

c 3130. ♀ Rowattus — g. — 142-14-21-23

AH 3305 — no ends.

3131. ♀ " — 80 g. — 138-15-20-21

AH 3307 — 1 emb. x 25 mm.

c 3132. ♀ Pavanymyscus — 38.5 g. — 103-14-14-12.5+

AH 3317 — 1 emb. x 31 mm.

3133. ♀ " — 39.5 g. — 105-15-13-15

AH 3309 — no ends.

c 3134. ♀ Dobsonia moluccensis — 344 g. — 237-25-38-32

DICKER
1969

New Guinea

Tranma Valley, 3800 ft., Baiyer River, W. Highlands Dist.

Aug. 4

3135	♂ Nyctimene	AH 5150	40 g.	test. 5×3.5 mm. 124-19-17-15.5

Aug. 12

3136.	♂ Syconycteris	AH 3310	18.5 g.	test. 7×6 mm. 82-0-13-16
3137.	♂ "	AH 3311	16 g.	test. 4×3.5 mm. 75-0-12-16

Aug. 13

3138	♀ Rousettus	AH 3312	89 g.	1 emb. x 18 mm, lact.? 146-13-21.5-21.5
3139.	♀ Paranycteris	AH 3118	33 g.	1 emb x 31 mm. 100-12-12-13
3140	♀ "	AH 3313	30 g.	no emb, parous 106-15-14-13
c 3141.	♀ Syconycteris	AH 3316	19.5 g.	1 emb x 25 mm. 79-0-12-15
3142.	♂ "	AH 3319	20 g.	test. 6½ x 6 mm. 79-0-12-15
3143.	♀ Rousettus	AH 3317	99.5 g.	1 emb. x 29 mm, lg. w. fetus 144-16-21.5-21

Aug. 5

3144.	♀ Macroglossus	AH 3254	17.5 g.	1 emb. x 3 mm. 79-4-12-14.5

Aug 13

c 3145	♂ Echinoxenus rufescens	AH 3322	340 g.	test. 13×8 mm. 313-63-53-24
3146.	♀ Rattus	AH 3122 complete SKEL. ONLY	95 g.	20 emb, parous 290-130-34-20

Slope Mt. Pugent, 5500± ft., NNE Halstrom Sanctuary, W. Highlands Dist.

Aug. 10

3147	♂ Paranycteris longicauda	AH 3294 + BODY SKEL.	255 g.	test. 5.5×3.5 mm. 408-177-60-24

Tranma Valley, 3800 ft., Baiyer River

Aug. 14

c 3148.	♂ Hydromys chrysogaster	AH 3123	430 g.	test. 35×19 mm 494-231-59-19
c 3149.	♂ Paranycteris	AH 3326	28 g.	test. 5½ x 4½ mm 98-13-14-14
3150	♂ "	AH 3327	27 g.	test. 6×4½ mm. 96-14-14-14
c 3151.	♂ Echinoxenus rufescens	AH 3331	385 g.	test. 12.5×9 mm. 320-62-54-26
c 3152.	♂ "	AH 3333 + BODY SKEL. very fat	1550 g.	test. 16×12 mm. 443-81-67-28

LIDICKER
1969

New Guinea

Tsauna Valley, 3800 ft. Baiyer River, W. Highlands Dist.

Aug 14

3153. skink

AH. 3323 alc. 1 emb. x 27 mm.

3154. ♀ Paramystrum 28.5 g. 100-15-14-13.5

Aug 15

AH 3340 1 emb x 3 mm.

lum c. 3155. ♀ Pl:letor 11.5 g. 92-31-10-14

AH 3349 20 embs porous

lum c 3156 ♀ Melomys platyops? 78 g. 264-115-30.5-18

AH 3350 2 emb. x 20 mm. mamm. form. 0+2=4

lum c 3157 ♀ Melomys 67 g. 275-138-27-16.5

AH 3351 test. 6 x 4 mm.

lum c 3158 ♂ Melomys? 27 g. 225-114-25-15

AH 3353 +3 nestling fickles 3 fr. pl. scars + old scars

lum c 3159. ♀ Pogonomys mamm form. 1+2=6 50 g. 308-169-23.5-15

Aug. 16

AH 3451 test. desc. 35 x 20 mm.

3160. ♂ Hydromys chrysogaster 355 g 462-209-55-19

AH 3357 test. 6 x 4, not desc.

c 3161. ♂ Pogonomys 31 g. 272-153-23.5-13

AH 3360 2 emb. x 8 mm; desc.?

3162 ♀ Melomys mamm form. 0+2=4 51 g. 278-149-28-14.5

Aug. 17

AH 3370 test. 8½ x 6 mm.

3163. ♂ Melomys 32.5 g. 236-119-26.5-13.5

Tambul, 7300± ft., W. Highlands Dist.

Aug. 17

AH 3371 (in capt.) coll. G. George test. 5½ x 3½ mm.

c 3164. ♂ Pogonomys sylvestris 40 g. 268+-146+-25-16.5

AH 3373 (capt. indiv.) coll. G. George nullip.

3165. ♀ 30 g. 270-157-24-17

AH 3374 (capt. indiv.) coll. G. George no emb.

c 3166. ♀ Pogonomys mollipilosus 95 g. 317+-167+-28-15

Mt. Pergent, NW of Baiyer R., W. Highlands Dist.

Aug 17

AH 3452 coll. G. George test 32 x 21 mm

3167. ♂ Thylogale brunii (capt. indiv.) 4450 g. 936-391-147-53

Aug. 19

AH 3453 coll. G. George test. 22 x 19 mm

mc 3168. ♂ Phalanger vestitus (capt. indiv.) ~1400 g. 732-305-62-24.5

LIDICKER
1969

New Guinea

vic. Tremum Valley, 3800 ± ft. Baiyer River, W. Highlands Dist.

Aug. 19

AH 3454 coll. S. Garson test. 19x17 mm.

mc 3169. ♂ Phalanger gymnotis (capt. in dir.) ~1400 g. 670-259-65-29

Mom Village, Kar Kar Island, Madang Dist.

Aug. 19 capt. Aug. 15

AH 3455 (coll. H. Gosser) no ends., 4th. pammus

m 3170. ♀ Phalanger orientalis 600 g. 582-261-45-22

Kariak, 1000 ± ft. Kar Kar Island, Madang Dist.

Aug. 16

AH 3567 (coll. A. Wilson) test. 6x4 mm.

3171. ♂ Nyctimene 45.5 g. 130-18-17-17.5

Banup Cave, 6 mi. S, 4½ mi. W Madang

Aug 20

AH 3432 test. 3x2 mm.

c 3172 ♂ Miniopterus 17 g. 133-55-11.5-13.5

AH 3436 test 2x1 mm.

c 3173. ♂ Hipposideros galeritus 7.5 g. 87-30-14-14.5

vic. Maiwara, 9 mi. N Madang

Aug. 20 capt. Aug. 12

AH 3456 test. 10x7 mm

m. 3174. ♂ Phalanger maculatus ~1150 g. 376-374-66-25

Wipim, 20 mi. W, 14 mi. N Daru, W. Dist. Papua

15 Aug.

AH 3843 (coll. R. Bauer) test. 2½x1½ mm FA=47

3175. ♂ Nyctophilus 12.5 g. 116-49-12.5-22.5

14-16 Aug.

AH 4904 (coll. R. Bauer) test 7½x6½ mm

3176. ♂ Sminthopsis 21 g. 189-86-20-14

S. Banup Cave, 6½ mi. S, 4½ mi. W Madang

21 Aug.

AH 3460 alc.

3177. ♀ Hipposideros calcaratus — g. — — 35-11-22

AH 3461 alc. test. 4x3 mm.

3178. ♂ Hipposideros galeritus 8.5 g. 85-26-9-15

LIDICKER
1969

New Guinea

Tunnel Cave, 7 mi. W, 3 mi. S Madang

Aug 21

AH 3462 — test. 7 x 4½ mm.
3179. ♂ Hipposideros diadema — 44 g. — 142 - 40 - 17 - 28

AH 3466 — 1 emb. x 14 mm
3180. ♀ " galeritis — 9.5 g. — 85 - 26 - 9.5 - 15.5

AH 3467 — test 2 x 1 mm. 12.5
3181. ♂ " calcaratus — 13.5 g. — 95 - 32 - [illegible] - 20.5

AH 3468 — test. 7½ x 5 mm.
3182 ♂ " " — 17.5 g. — 107 - 33 - 12.5 - 20.5

Abaria Village, Manam Island, Madang District

10 Aug., Killed 22 Aug. coll. H. Cosgar alc.

AH 3459
m 3183. ♀ Petaurus breviceps — 23 g. — 205 - 104 - 21 - 15

S. Banup Cave, 6½ mi. S, 4½ mi. W Madang

Aug. 24

AH 3430 — 1 emb. x 20 mm.
c 3184. ♀ Hipposideros galeritis — 9 g. — 87 - 30 - 9 - 15.5

AH 3431 — test. 3½ x 2½ mm.
3185. ♂ " " — 7.5 g — 85 - 28 - 9.5 - 15

AH 3440 — test. 5 x 3½ mm.
c 3186 ♂ " diadema — 39 g — 149 - 50 - 18 - 31

Aug. 25

AH 3443 — test 3 x 2 mm
3187. ♂ Ascalisaens — 4 g. — 68 - 22 - 8 - 13.5

8½ mi. N Madang

Aug. 25

AH 3445 — 3 emb. x 12 mm., lact.
3188. ♀ Melomys — mamm form = a+2 = 4 — 98 g. — 295 - 132 - 33 - 19

AH 3474
3189. Sphaeromorphis fitzsimonsi

AH 3475
3190. Tribolonotus gracilis

AH 3473 — no vis. embs.; 2 pouch yg, 2 g. ea. (preserved)
3191. ♀ Echimipera — 763 g. — 379 - 75 - 59 - 25

S. Banup Cave, 6½ mi. S, 4½ mi. W Madang

Aug. 24

AH 3471
3192. Platymantis papuensis

AH 3441 — no embs, lg. mamm glands
3193. ♀ Hipposideros diadema — 44 g. — 144 - 42 - 17 - 30

Aug. 25

LIDICKER
1969

11½ mi. N. Madang, New Guinea

Aug. 25

3194. Spheromorphis jobiensis AH2952a

3195. " " AH 2952 b

3196. ♀ Hydromys chrysogaster AH 3472 multiparous 172.5 g. 384-186-49.5-18

8½ mi. N. Madang, New Guinea

Aug. 25

3197. Spheromorphis jobiensis AH 2953

Aug. 26

3198. Platymantis papuensis AH2952

3199. Tribolonotus gracilis AH 2954

vic. Maiwara, 9 mi. N. Madang, New Guinea

Aug. 26

3200 AH 2955

Strawberry Canyon, Alameda Co., Calif.

Oct. 2

3201. ♀ Perognathus fresii 4 ent x 5 mm. 32.6 g. 222-106-23-22.5

Sagehen Creek, 6400 ft., 3½ mi. NW Hobart Mills, Nevada Co., Calif.

Oct. 24

3202. ♀ Thomomys monticola multiparous 70.2 g. 201-57-26.5-7

Oct. 25

3203. ♂ Callospermophilus lateralis test. 14 x 6 mm. 204.7 g. 293-94-45-19

Hastings Nat. Hist. Reservation, 1700 ft., Monterey Co., Calif.

Nov. 22

coll. by J. R. Lidicker

3204. ♂ Perognathus californicus test. 6 x 3 mm. 35.0 g. 224-120-28.5-14

3205. ♀ Neotoma fuscipes multiparous 196.8 g. 388-187-42-32

Mo. Malvora Canyon, 2100 ft., E of boundary of Hastings Nat. Hist. Res., Monterey Co., Calif.

LIDICKER
1969

Robertson Creek, 1600 ft. Hastings Nat. Hist. Res., Monterey Co., Calif.

Nov. 23

3206. ♂ Perognathus californicus — testes 3½×2½ mm. — 19.2 g. — 197 - 102 - 25.5 - 22.5

Mo. Madrone Canyon, 2100 ft. E of boundary Hastings Nat. Hist. Res., Monterey Co., Calif.

Nov. 23

3207. ♀ Perognathus californicus — no testes; fg. nipples. — 41.2 g. — 248 - 125 - 26 - 25

Moroka Village, Brown River, Papua, New Guinea

23 Aug. (skinned 2 Jan., 1970)

3208. ♂ Syconycteris AH 3960 (coll. R.G. Bauer + L. Medway) — testes 8×7 mm. — 17.1 g. — 77 - 0 - ~~13-12~~ 12-15

3209. ♂ Macroglossus AH 3961 " — testes 7×5 mm. — 12.1 g. — 69 - 0 - ~~14-11.5~~ 11.5-14

24 Aug. (skinned 2 Jan. 1970)

3210. ♂ Syconycteris AH 3973 " — testes 5×6 mm. — 16.0 g. — 77 - 0 - 13 - 15

Lae, Terr. of Papua + New Guinea

26 Aug. (skinned 3 Jan., 1970)

3211. ♀ Pipistrellus papuanus — 5.0 g. — testes 1×2 mm. — coll. by V. Savich + J. Calaby — 77 - 29 - 7 - 10

3212. ♂ " " — 4.3 g. — ~~test. 1×1 mm.~~ — (skinned 24 Jan., 1970) coll. by V. Savich + J. Calaby — 74 - 29 - 7.5 - 10.5

3213. ♂ " " — 4.3 g. — test. 3×2½ mm. — 77 - 29 - 7 - 11

Moroka Village, Brown River, Papua, New Guinea

25 Aug. (skinned 24 Jan. 1970) (coll. R.G. Bauer + L. Medway)

3214. ♂ Syconycteris AH 4699 — 14.8 g. — ~~test 4×3.5 mm~~ 75 - 0 - 12.5 - 16

3215. ♀ Nyctimene AH 3132 — 25.7 g. — 1 embr. × 2 mm — 109 - 19 - 14 - 14 — (skinned 2 Mar. 1970) (coll. R.G. Bauer + L. Medway)

3216 ♂ " AH 3126 — (test. 4×4 mm) 27.4 g. — 111 - 20 - 15 - 14

Wanuma, 1900 ft., Adelbert Mtns., New Guinea

12 Aug. (skinned Mar. 14, 1970) coll. W.S. Packard

3217. ♂ Nyctophilus AH. 2843 — 5.8 g. — 99 - 42 - 9.5 - 16

Lidicker, W. Z.

1969

Journal

New Guinea

california

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Alpha Helix Expedition B

14 July – 29 Aug., 1969

14 July

Left San Francisco on Qantas 210. Stopped about 40 min. in Honolulu and another 40 in Nandi, Fiji.

15 July – crossed dateline

16 July

Arrived in Sydney ~0850 (1550 PDT). Met by Basil Marlow. Checked into Hotel Metropole & then walked to Australian Museum with Basil. Worked all day there on Antechinomys. Met Frank Talbot, Director, Harry Recher, Dept. of Environmental Studies (PhD Stanford, post doc. with MacArthur) & formerly with Charles Birch's Dept. for 1½ years, and Paxton, a zoology grad from USC (student of Jay Savage & friend of Dave Wake). In evening had dinner with Basil & talked about "Cercartetidae" (horrible paper with R.A. Stirton).

17 July

Got up 0500 to make 0700 flame for New Guinea. Switched from jet to Friendship Fokker in Port Moresby. Stopped in Lae, arrived Madang ~1500. Got rides into Madang from airport & then got ride to Maiwara with the Alpha Helix's customs agent.

18 July

Spent most of day organizing a work area in

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the shore late & preparing for karyotype techniques.
Worked with a few bats I caught by ornithologists
in mist nets at Sempfi (13 mi. N Mahary).
WZL #3011 has large crescent-shaped gland on throat.
Worked into evening late getting bone marrow suspensions
& skinning two bats.

19 July

Went with Bill Pechaver to check mist nets just
on E side of Maiwara. Caught 3 Rousettus & 3
Sycoryctenes. Then went with him to Sempfi to see
the area. Processed 4 bats after lunch. Griffiths
arrived back from Highlands & Rod Sutter (U. Indiana).
Talked with them. Watched for bats 1815-1845. Saw
several small ones, probably Pipistrelleus & 1 larger
bat that emerged from a hole in a coconut palm
& flew downwind & away. Checked bat nets just E
of settlement (N 2030) after dinner with Sutters; caught
only 1 sunbird. Worked with Griffiths & Sutter with
a Rousettus in their flight cage.

20 July

After breakfast, Griffiths, Sutters & I checked mist nets
on E side of Maiwara. Removed 8 Rousettus including
1 adult ♂ (WZL #3017) & 1 Sycoryctenes crassa (#3020).
Then went to Sempfi with Pechaver to check nets
there. No bats (only 1 was left open all night). Skinned
bats, several of which I found frozen in refrigerator.

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20 July cont. –

About 1415 a "sing-sing" began outside of lab to celebrate the arrival of the Alpha Helix. Watched for awhile & then went back to lab to skin a Dobsonia minor that Rod Suthers had stuffed the eyes of, & removed them. Then Griffin & I & Alan Wilson went to Sempi to watch bats. From 1815 to 1845 watched bats flying over small ridge a short distance W of reserve training camp. Bats were streaming through in great numbers. Griffin had his bat detector & thought that com. species was Hipposideros galeatus. From about 1830 on we saw about 80 of a large bat, prob. H. diadema. Griffin also thought there were some Emballonura & we also saw numerous small fly-catcher-like bats. When we got back, the sing-sing was just breaking up. Watched Wilson prepare to extract feathers from muscle of Paranyctimene & Dobsonia.

Note - #3021 claws very lt. brown but clear at tips.

21 July

After breakfast, Griffin & Suthers & I went to Medang. I got my shotgun registered & bought some gori. Then we headed south toward Sulfur Cave. This cave is just N of the Yaguam Leper Hospital. A strongly smelling stream flows out of the cave which is not far the W of the road. In spite of the strong H_2S smell, we saw fish in the stream & 1 water strider on the water. The cave was very hot inside & muddy. We saw about 30-40 Hipposideros calcaratus

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and caught 6 with hand net. On the way back, Griffiths showed us a trail which leads to a cave into Dobsonia minor in it. After lunch Wilson showed us how to place samples on a starch gel. Prepared bat specimens, some from freezer. Also injected colchicine into a Phalanger maculatus (yg. ad. ♂) & bats got more warmer preparation. Hung phalanger in shade cooler for the night.

22 July

Skinned phalanger (#3026) + accumulated bats. Peckover brought in a badly tangled ~~bat~~ mist net hung by J. Ikikava in coconut plantation in Madang which contained 16 Rousettus amplexicaudatus (9 were dead, 7 were alive + 1 of latter was released). Starting at ~1500, there was reception given by Alpha Helix for various local dignitaries, including "Lewai", Pres. of the local District Council. Harold Cogger from Aust. Museum arrived. At 1730 6 of us went to Sampin for a bat shoot. We arrived about 1815, & walked in from the Reserve Camp. At one point 3 of us saw bats pouring out of a gap in the forest. We moved a nearby mist net & with the help of a hand net very quickly caught 2 Ascalliscus + 3 Hipposideros galeritis. Then we went on to the ridge: Griffiths was recording H. diadema & Ken Calvin & I were trying to shoot bats in a clearing beyond. We connected on one, but couldn't find it even after a long search. It was

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a good bird flight. The bird team brought in a H. diadema in the morning taken from a bird net about 30 ft. high at Sampi (Reserve Camp). When we got back from Sampi ~ 1920, the remains of the reception were still going on.

23 July

Went to Sampi to check on nets. Caught 1 Sycomyscus & 1 Macroglossus. Asked Anton (local fellow who has been tending the nets) to keep nets open all night tonight. Ken came back from Sampi in evening, with two packs of Phalanger which he had purchased in Sampi for 25¢ each. Worked all day on specimens. Still no sign of Vince Sarich who was due in on July 20.

24 July

Went to Sampi to check nets. We had 15 bats in the nets: Dobsonia minor - 2

Hipposideros diadema - 1 (only bat from 30 ft. high nets.)

Ascalliscus - 1

Macroglossus - 6

Sycomyscus - 5 (including 1 ♀ with lg. nursing yg. = WZL 3064 & 3065)

Worked all day on specimens. Sarich showed up in late afternoon. He had missed his plane connection in Sydney & had to wait 3 days for a flight to New Guinea. Spent some time talking to Vince & in evening worked & talked with him somewhat. He wants to get blood samples from as many of the mammal species as possible.

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July 25

Worked on specimens. Packed up 11 vials of cell cultures for T.C. Hsu (M.D. Anderson Hospital, Houston). After lunch went into Malay with Capt. Bob Haines, Robby Haines, & Rob Rahm (Undergrad. Hobart Coll., N.Y.). We went to Greenwald's house in Malay where he is photographing birds along with Jim Kikkawa & his student Ross Robertson. They had 3 bags of bats for us which were taken out of 38 mist nets hung 2 mi. S Omura. Went to P.O. & mailed package to Hsu. It rained almost all day as it did yesterday. Headed back for Maiura about 1500. Sorted bats from Omura:

from net 5 ft off ground in deep forest –

Dobsonia minor (?) - 1 (very dark)

Paranyctimene - 1

from net 8 ft. off ground in deep forest –

Nyctimene - 2 (sp. with reddish wings)

Paranyctimene - 5

from net set on edge of forest –

Rousettus amplexicaudatus - 3

Macroglossus - 4 + 1 newborn sp. (placenta still attached)

Syconycteris - 1

This was a total of 15 bats. While feeding the Paranyctimene sugar water to revive the ♀ noticed that they do not stick out their tongues to lap up the sugar as do Syconycteris & Macroglossus, but make chewing motions only.

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W. worked on specimens & packed gear for going into the Adelbert mountains tomorrow. The evening before I had set 1 small mouse trap & left another Sherman trap which was baited & supported in "mouse" living in his equipment. Caught an adult ♂ Rattus exulans. Toward evening Herbert Dessauer brought in a very small R. exulans ~2 wks old; & an adult ♀ with 2 pups which he had gotten from local school kids. I discarded the very small individual & the pups (1 ♂ & 1 ♀, 3 s. ex.). The ad. ♀ (AH 290) was killed by Vince & frozen.

July 26

Got up 0530, had small breakfast, & drove in to airport with Bill Packard (Pt. Moresby telephone & telegraph & ornithologist). We arrived at airport at 0645. Our plane (Cessna) arrived a few minutes later. Our total cargo & we weighed in at 772 lbs. We took off for Wanuma in the Adelberts about 0800. It was mostly overcast with numerous cloud (fog) patches on ground. Wanuma is over the main ridge & on the W side of the mountains in the Ramu drainage. It is a Lutheran Mission with a tiny & rough airstrip. The plane took off promptly & pilot barely got away when the fog & rain closed in (~0830). Wanuma is ~2200 ft. elevation. It rained all morning. Bill & I went for walk with 3 villagers for 2½ hrs. We walked mostly NE toward main mountain ridge & got into very L. a forest before we turned back. The three most helpful villagers are

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Yamowe (local ~~[illegible]~~ school teacher) & Uram. The former spoke pretty good English. The village belongs to the Abisan tribe & language is the same here. After lunch, Bill napped for ½ hr. which he caught up on some notes. About 1430 I went to set traps with Yamowe. We went by Li Lowe's & met his wife & 5 wk old baby. We took along another man as well. We went almost straight down maybe 1000 ft. to the river (on W side of village). About ⅔ of way down we started getting into good forest. Set 1 Sherman bird trap w ½ way down. River has only small flow with intermittent pools. Yamowe says there are no fish because it occasionally dries up. We set 15 traps along both sides of the stream, working upstream. This must be very near the headwaters of the river which is apparently the Nawagai, a river between the Nawagal (to W) & Nawagen (to E). We climbed back up by continuing upstream & sl. to the W. Eventually we hit the main track to the NW of the village which is the one Bill had gone down to see a lower, but it turned out to be only a "playground" of a kind-of-parakeet instead of a lovebird. It rained intermittently in the afternoon. After reaching the main track I rested briefly with the other fellow while Yamowe went to find a good set for our two-not (banded not trap) - a fig. tree. When he called we went down the slope again to set the trap. At 1 point I landed on a soft

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log which broke open exposing a lizard which I caught (No. 3069); this was heavy prey. When we got back it was ~1800; just time to grab a mist net, 5 aluminum poles to hand back down the NW track to set them. After a 12-15 min. walk – which we decided only 200 ft. – we set them out. After dinner we studied two detailed maps of the area & finally located Wanuma to our satisfaction – just to the east of the headwaters of the Namagai R. (Ramu drainage), 2200 ft. & with coordinates of: 145°21'E, 4°, 52'S. Then we checked mist nets. We had caught 1 Macroglossus (WZC No. 3073) & ~50 scarab beetles. Got to bed about 2230.

July 27

Up at 0600 to check mist nets. Caught 4 Syconycteris including 1 with a leg missing yesterday (No. 3074 & 3075), & 54 Macroglossus. Also 3 bird flew into the net while we worked taking out bats & beetles (1 leg. orange headed wrynek, & 2 different sp. of kingfishers). After breakfast I skinned 3 bats. Pechman kept checking the nets almost every ½ hr. He was collecting lots of birds, but something was down robbing the nets. In the early AM we also had 1 wing of a Syconycteris or Macroglossus – the rest: something had apparently taken the rest. Yaqoub had gone down to the river at 0600 to check our traps & reported catching nothing. After lunch I started setting traps. I went on a trial E of mission house which lead down

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to a creek. Several hundred yards downstream from where I joined the creek, it went over a high waterfall & eventually seemed to join the Nzungwi S of Wanama. This creek was also not flowing but consisted of numerous pools. From 1300-1350 I set 17 traps (Sherman lg. live traps) along the slope down to the creek & along sides of stream (downstream). Then back to get more traps & 15 were set on a forested peninsula above this area (1445-1515). Returning for another 2 bags of traps, & then set 15 more in some grass but this time = brush, grass & thick growth along a trail leading to creek - last 3 along creek (1630-1700). Finally I set the last of traps & had = a overgrown old garden with some tunnels & lots of weeds. I ran out of baits so only tagged first & last trap = this last series. Finished at 1725. Returned to write notes. Had coffee break with Meisel's between 2nd & 3rd series of traps. Packed lead off after this to just up more nests. This was a mostly clear day, with some clouding & a brief rain shower = the PM. Meisel's are from Bavaria & are with the Lutheran Missionary Circuit. They have been in Wanama only since last Feb. The local girls who are wearing only grass skirts seem a little shy & often cross their arms over their breasts, the hands resting on the shoulders. A local lad brought in a big death adder during the day for which we paid 1 shilling. Later a lovely veined Phalanger jumping mouse was also brought in. At 1815 took and Mazoghoany caught last night &

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found that it had just given birth to a baby; apparently it was a still-birth as baby was dead. These Macroglossus seem to have a faint dorsal stripe, but this largely disappears when bat is skinned & shoulder blades don't make a groove down the back. The newborn bat + the placenta weighed ~2.2 g. Skinned bat before dinner. After dinner skinned 2 more bats & the since Bill was still bleeding his bird cook, I went to check the bat nets. ~~Bill~~ Bill had moved our group of four about 5 min. walk further down the track to N bat. Nets contained 1 Syconycteris ♂ + 1 ♀ Macroglossus. While I was working on second bat another hit the net (Macroglossus - new trap). Then I started taking out the mum. scarbs in the net, + another small bat hit the net very near me, but got out again. I think maybe the squeaking of the bats in the sack may have attracted the second two bats. I was almost back when I met Bill coming down the track. Got to bed ~2230.

July 28

Bat up 0600. Checked traplines to E of mission house. Nothing! After breakfast I arranged for Iwan Lamed Barie to set 5 remaining leg. Hawkbat traps for bandicoots. Then I hacked down the slope for the River where Yamowe & I had set traps on 26th. I was joined by Yamowe's youngest brother. I took the wrong track just below Yamowe's house & had descended to

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1600 ft. Before I was sure I was on wrong track. So climbed the 600 ft. back up to Yamani's house; he showed us the right branch & the young brother & a kid went with us down to the river. Checked trap set first way down (~1800 ft.); it had nothing in it. I had altimeter along & river was 1300 ft. (900 below house). Picked up all 15 traps along the river. They got nothing (1 was closed), & all had bait left although a few baited channels were molested.
We climbed back up & we set traps: 8 at 1540 ft. + 7 at 1620 ft. This was in heavy forest on steep slope. All traps were baited with bread, peanut butter (only remnants: some ants) & pineapple or star fruit. I was exhausted by the time we got back to house – ~1130. Bill had cleared the nets of bats in AM. Out of 5 nets (1 light) we caught 1 Nyctinomus (light net), 1 Sycoryctes, & 2 Macroglossus. That nets 7 for 2 nights. After lunch we took a short hop. Then I skinned 2 bats. Only a few showers of rain today, but thunder in late afternoon. First trapline reset & baited (1 mostly along river). Used bread, Boi's biscuit & pineapple or star fruit. Most also had remnants of peanut butter in them. Started the line at 1630. ~~The nearest~~ One trap set on bridge along roadway covered rock contained a bigeye (Lo. 3080). Then reset other 3 lines, this time with peanut butter & Boi's biscuit only. Finished line about 1800

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July 28 cont.

Skinned a more bats after dinner. The Bill & I left ~ 2025 to check the nets. We had obtained 3 more about 5 min. further down the track. ~~They and~~ This makes a total of 8 nets including one night & the single net along Kanoa cleared path. The nets contained only 1 Macrotarsomys & 2 birds, a small kingfisher & a small dark nightjar. In the net & the single, a lizard was crawling on it & we caught this lizard (no. 3081). We were back & to bed by 2130.

July 29

Up at 0615. Checked 4 trap lines to E. Caught nothing. Picked up traplines 1 & 3 for weighing. Bill went to nets. Only 1 bat this morning, a Rousettus (no. 3083). After breakfast I went down to check my traps at 1540 & 1620 ft. Caught nothing but a lizard & lower group (no. 3084). Rebait all on lower four & bread or biscuit. Took camera down so took a few photos:

1) view w. Yanomami's house
2) looking down from lower trap site (1540 ft)
3) upper trap site (1620 ft.)
4) looking up trail (~ 1700 ft.)
5) from garden on top looking WSW

I also picked up the single trap set at ~1800 ft still bait after 3 nights, but bait not been touched.

Back on top by 1030. Had "doctor boi" put bandage on my finger which had flared up from a bad bite some

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July 29 cont.

days ago. Prepared bagels & skinned 2 baits. Set line of 16 Stevens's in spot of two on forested slope above (E) of creek to E of village. Then set second line of 16 in same area (above waterfall) including some along a rock outcrop. All then baited with four-four & bread or biscuits. Decided to leave out for third night west of old trapline (no 2, on peninsula). Added four-four to bait in three traps on this line but two previously had any fresh bait. Since I ran out of four-four though, the last four traps did not get much more than a few seeds & a smell. All these traps also had biscuit & peanut butter. Took several photos:

a) pt. of village; b) looking down toward E creek;

c) in bottom of creek; d) view from trapline no. 2 (peninsula)

Picked up first K of this last trapline, leaving 11. Heavy thunderstorm just past middle of afternoon. Took 12 worst traps & explored in direction of airstrip. Set out in 3 groups of 4: 1) in grass & weeds just over W edge of strip; 2) & 3) in thick undergrowth of grass & ferns in 2nd growth just inside of NW corner of airstrip. Took several photos of Wanna, last one of day is shot of airstrip looking S. at 17:45 & after a rainstorm. After dinner Sanderup (local school teacher) invited us to talk to large group of children & a few others assembled in the church. We laid out bait, Bill in "pidgin" & I with Sanderup translating. Then I went with Yaroove to his

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home to give him my addresses & to check outside.
About 2045 Bill & I hiked out to check the nets.
This time they contained only 1 kingfisher & 1 Sayornis.
We also gathered up some of the numerous scarab
beetles in the net to feed to our two captive
kingfishers. Got back 2145 & talked German politics
with Meisel until ~2215. Saw & heard a lg. number of
fruit bats feeding in a lg. tree near nets.

July 30

Got up 0600. Checked new trapline first above
waterfalls. Caught only 1 skink (no. 3085), 2 grasshoppers; 1 trap,
& 1 was closed & empty. Picked up remaining 11 traps
on peninsula line; none of these was even closed.
Then checked 12 traps along airstrip. Also nothing.
After breakfast Bill accompanied me down the nets
to my traps at 1540 & 1620 ft. Then caught nothing.
They were saturated so all contained both pandanus
& star fruit & biscuit. Got back up ~1015.
Skinned 1 bat from last night, prepared legs,
& skinned 1 of 2 baby flying foxes which came in on July 27.
Much rain in afternoon. Went out to N end of airstrip
to relocate 12 traps set there (biscuit & star fruit) &
set 11 more traps in that same area, same bait. Then
I came back & went into Sanamp & as result of talk
with him we went to little store near Lorna &
set & reset traps (near from store) in the store for
rats, 2 on shelves near boy's biscuits that had
rat droppings in the boxes & 2 in attic near bags of

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rice. Baited with biscuit smeared w/ peanut butter. Relocated 32 traps above waterfall - biscuit & strawberries. After dinner Bill & I hunted for twist nets & trap where we had seen fly. fruit bats last night. Arrived at trap at 2015 & immediately shot 2 Pteropus (3088 + 3090). Also shot a fly. gecko (Lep lord) that was climbing up the trunk of the same tree & the bats were feeding (3089). Spotted it by eye shine as it was very well camouflaged. Quite a few other Pteropus feeding in trees & flapping around. In nets we had 2 Paranyctimene (close together) & 4 Syconycteris. When we got back I took cell culture from ear of Pteropus & preserved some of its liver for HSU.

July 31

Checked traps & started carrying them in. Before breakfast I brought in 17 of them above waterfall & all but 5 from airstrip line. After breakfast Barie & I went down to retrieve the 15 traps set at 1540 & 1620 ft. Caught nothing in any of them. Also nothing in the 4 above traps. The twist nets produced 3 Macroglossus. Skinned 1 of Paranyctimene & the other young P. leloogi that died (I was trying to keep him alive long enough to get him back to Maiwara). Rounded up remaining traps, 15 from creek & 5 from airstrip. Took a few photos around village. Beautiful sunset. Noticed that the Paranyctimene skinned

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earlier could move his tubed nostrils individually when touched. Photos taken included some of Meisel's House (code name "Hotel Quebec") w/ Yapsich, nurse, etc. Meisel's are Christoph & Hilda & are from Bavaria; their 6 mo. old child is Ursula. Talked to Sanamup some more; his ~~[illegible]~~ family name is Jogamup, although the villagers have given him the name Bakan which he does not prefer to favor. He told us that Al Ziegler had come through Wamena in 1967 on his way to Attitam & he had also had him explain his work to the school kids. Bill & I checked mist nets about 2030. Heavy rain fell just before we left & continued for awhile (while we walked down & worked on food of nets). Caught 1 Nyctiscus & 9 assorted Myotis lucifugus & Eptesicus. Sanamup was quite interested in my dealings with Ziegler & I promised to send him anything that I subsequently wrote about the Adelberts.

Aug 1

Got up as usual at 0600 & packed up for leaving. The plane (Cessna, pilot Stan Reed) was due in at 0815. Talked some more with Jamoure & took photo of him & family in front of his house. Found out that his family name is Magin, wife's Yomo, adopted daughter - Alin & 5 yr old son - Mandu. Nothing caught in the 4 traps in the stove. By 0700 it had fogged in badly & started to rain. It looked

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like I wouldn't get out at all today, but it cleared up fairly & Stan came in about 0945. Dick Zweifel got off & I got on; we also carried a sick man who had walked in from the bush & was headed for Yagaum Hospital. We had an uneventful flight back to Madang. After about 5 min. Harold Cogger showed up to meet us & we got back to Maiwara by noon, after visiting Greenwell's in Madang to deliver 3 live birds to him. They were packing to leave for Mt Hagen that afternoon but decided to take the birds with them. We also stopped at the P.O. Worked all afternoon & into evening skinning, etc. About 2230 began to get very tired & then I got bad chills.

Aug 2

Woke up very sick, fever & chills & muscle aches. Rested most of am. Prepared 3 animals in afternoon, a bandicoot & Melomys brought in from Capuchin Seminary across the bay (3102 & 3103). ~~Rested late~~ ~~after~~ The Melomys had skin like wet tissue paper & picking it up by the scruff of the neck to examine, the skin ripped badly. This seems to be a generic characteristic as I ~~[illegible]~~ remember the Melomys taken in 1962 in the Bulolo valley were very fragile around the neck & on top of the head. Rested in late afternoon; now fever (to 103.6°F) & chills. ~~To~~ In evening I began to feel a little better.

This of Melomys does not have a prehensile tail.

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Went to sleep in Griffin's house by the bay, because it was warmer (no air conditioning) & the beds with springs so was much more comfortable with my sore muscles. Began malaria treatment today also.

Aug. 3

Felt pretty weak. Skinned a few animals & rested on a cot all day. Fever in afternoon but less severe than before.

Aug. 4

Felt better but still very weak. Skinned 1 small Malagasy & did mouse preps on this & a lg. ♀ P. maculatus (3111). Also skinned a couple of Melomys from the Catholic Seminary. Took a nap. Light fever only today. About 2230 began feeling very tired again & had chills until about 0130.

Aug. 5

Sick again today. Skinned the P. maculatus in the morning. Ailupe brought in 14 Syconycteris from the 5 mist nets he is operating locally. Some were dead or died shortly. I gave a drink to 3 ♂ & 5 ♀ & released. Only 1 ♀ (new item) flew away immediately. Most of the others probably died. I went to rest at 1130. By noon I felt very sick. The malaria treatments apparently haven't been doing anything for me. When Tom Robbins (MD) got back from a driving trip with Frank Talbot we decided to go into Madang Hospital. Left about 1800. Checked in & they checked me out.

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They found no diagnostic symptoms, but made a blood smear & gave me two sleeping pills which anesthetized me for the night.

Aug 6

Blood smear negative. Dr. Henry (the physician – a pediatrician actually who took me in) took a blood sample & ~~[illegible]~~ sent some serum to Moriaty for antibody tests. About 1500 I began to feel more alert than since yesterday morning & possibly even Aug. 4. Ate dinner relatively enthusiastically for the first time since Aug. 1.

Aug. 7

Today I felt like I was going to survive. My fever still classified as FUO (fever of undetermined origin). Rested, read & wrote a few letters. Dr. Henry says there are hundreds of jungle fevers caused by viruses that are little known – mostly because they are usually not fatal.

Aug. 8

Tom Stobbe arrived about 0800 & picked me up at the Hospital. We left about 0830, went to Dorst Mice & bookstore (where I bought a book on Fiji English) & then to Dorsett Mice where I made a reservation to fly Madang for Sydney on Aug. 28 & fly Sydney for SF on Aug. 29. Skinned a few animals from Wewak area & later from Wanuma (nos. 3112–3118), resting intermittently.

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The Rattus (3) from Passam Agric. Sta. were all taken in buildings. The Pogonomys taken by Zwerfel (no. 3118) was caught by hand 5-6 ft. up in a sapling at night in garden regrowth.

Aug. 9

Skinned a Pogonomys of another species from Tambul collected by Rollin Baker (no. 3119) & a captive Dactylopsila from Baiyer River (no. 3120). Noted that its eyes are very well protected by the zygomatic arches. In afternoon went to Yagaum Sulfur Cave with Frank Talbot. First we collected fish in the stream coming out of the cave - using rotenone. We got a good collection but seemed to miss the biggest ones. Then we went in the cave & collected 5 more Hipposideros calcaratus for bleeding. Saw 20-30 more individuals. It was wetter in the cave than last time but just as hot & muddy. In the evening I bled the 5 bats & skinned a Pteropus from Baitabag plantation which I had earlier gotten a narrow sample from (WZ3121). It is a different species from the one at Wanuma. Got to bed about 2300 but couldn't sleep for long time because of 2 cups of coffee I had on Alpha Helix during short party in which Alan Wilson served a dessert made out of starch gel & mandarin oranges.

Aug. 10

Feel a bit weaker today. Stuffed the Pteropus

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Aug. 10 cont.

skinned last night. Then skinned a bandicoot that was alive in a cage when I first arrived in Maiwara & had 2 lg. pouch yg. which died at different ages & were frozen (#3122). Then a beautiful specimen of Murexia arrived from Wawura & I skinned that too. The group from Wewak returned early in the morning although Gaithom Medway continued on the same plane with Jon Aliepuik & Robin Bauer who were on their way to Daru, at the mouth of the Fly River. In the afternoon I packed gear for going to Hagen tomorrow, rested, wrote 2 letters, & skinned 2 of yesterday's H. calcaratus. After dinner skinned 2 Rattus collected earlier by R. Bauer from the Tambul area (3127 & 3128). Noted that both females had very lg. clitoris & very lg. anal glands. Looked through bats collected by Wewak group & found 1 Emballonura which I also skinned (no. 3129). There were also lots of Paranyctimene in the collection & 2 Hipposiderus diadema which were tan rather than gray in color. Finished packing & went to bed ~2230.

Aug. 11

Up at 0530. Andy Ferguson, Dick Zweifel & I took the Toyota into the airport. Arrived ~0640. Andy & I got on 0700 flight to Mt. Hagen. Zweifel was taking a later flight to Pt. Moresby & then on to Daru. Arrived Mt. Hagen ~0800. Silly

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was to have arranged to have someone meet us. About 1030, the manager of Tigi Plantation (Mark) where Silley now is arrived to meet Ferguson. I continued to wait at the airport. About 1330 Ferguson & Mark came back to see if I was still there, having completed their chores in town. At about 1400 we decided no one was coming so with Mark's help we arranged for a private mission plane to fly me to Baiyer River. We carried my gear to the mission hangar & found the pilot. He said he had one other flight to make & he would be back in about an hour. Mark & Ferguson took off for Tigi & I waited some more. About 1515 the plane returned & we loaded on my gear. The pilot charged me $10 for the flight. He disembarked on his motor scooter for about 15 min., & then we finally took off about 1540. It was a very interesting flight over the Waghi Divide & down into the Baiyer R. valley. We landed on the Baiyer R. strip & piled my cargo on the grass, & the pilot took off again. I grabbed my TAA bag & binoculars & headed for the Agric. Sta. near the airstrip to see if I could find any way to get to our Baiyer R. field party. I finally contacted a Mr. McGregor who was kind enough to have one of his boys drive me the 6+ mi. to the Holstrom Bird Sanctuary. I arrived there at ~1700 & met Graeme George, manager of the sanctuary. He gave me something to eat & drink, which was very welcome

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11 Aug cont

since I had not had any lunch. He then showed me around the sanctuary. The Howler monkeys were also at the Sanctuary as well as Jiros & Rosa. At about 1845 Jerome drove me to Tas Hamersley's place in Tranquera Valley where I finally at long last met up with Vince Sarich & Dave Gravatt. We had dinner, chatted, & then they went to check a few nets. It was almost 2230 before we got to bed. I looked through some of the stuff accumulated here in the freezer while they were checking the nets.

12 Aug.

Still not completely well. After breakfast started skinning bats that had come in today, including 1 Dobsonia moluccensis taken in a mist net strung across a pool in the river. I also skinned a Nyctinomus which I found in the freezer which seems to be a species new for the expedition (no. 3135). In addition to the 2 Sycoryctenes skinned, 2 additional ones were released & 1 other was frozen directly. Took up after lunch. Then we set 4 Sg. collapsible live traps along the shore of the river near where we saw tracks in the mud along the shore (possibly hydromyine tracks). The traps were baited with meat. Then Vince & I set out 17 of the Sg. Sherman-style traps in a forested area. We set them out in a hurry since it was almost dark, & baited the traps with banana slices. After dinner skinned the 2 Sycoryctenes,

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12 Aug. cont.

Brame George came by briefly also. Finally got to bed ~ 2215. Heard Dobsonia flapping around in trees by house both tonight & last night.

13 Aug.

Felt pretty good today. After breakfast checked traplines. Caught nothing. Started skinning some of morning's catch of ~~bat~~ bats. Quite a few were frozen without skinning, & 1 Syconycteris was released. It hung up in the house & we fed it banana which it ate avidly. Also skinned the one & only Macroglossus taken from this camp (on Aug. 5). After lunch I found a dead Rattus (rubber complex) in the house. It had been dead some hours so made complete skeleton - only of it (no. 3146); it had fractures on each side of its chest so was probably caught by a dog or cat. Also a Echimipera was brought in in the afternoon, caught in 1 of our large collapsible traps. I also skinned it. Set out 17 more Sherman traps in forest along stream where Vince & I had set last night. I also rechecked our other 17 traps in that locality. Then set 12 rat traps (snap traps) baited w/ banana along the edge of the river where we saw tracks in the mud. Then set 10 Sherman's in tall cane grass ("pit-pit") between two branches of the river. Along this trapline I found a bower of the yellow-breasted bower bird. It was a beautiful thing & was

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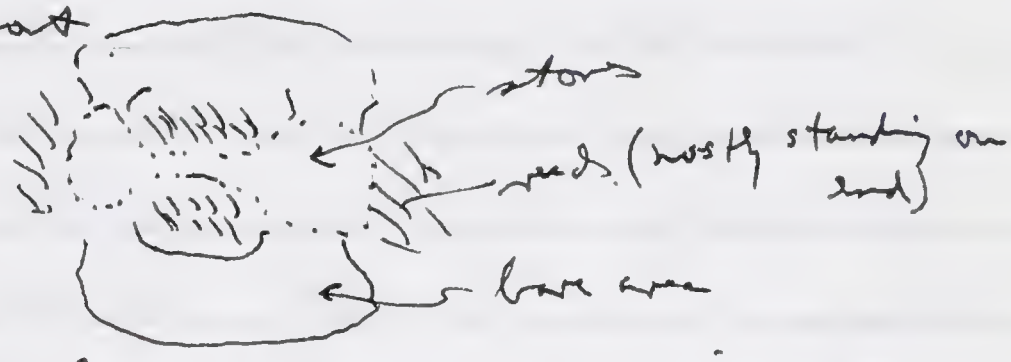
Aug 13 cont.

lined with bluish stones & with a lg. blue-colored fruit of some sort.



Vince set out in late afternoon 6 new mist nets in forest for bats. Talked to Greene & Jim briefly. They were very interested in the bower. After dinner I skinned a Peromyscus longicaudus (no. 3147) that Greene had brought in on Aug. 10 from the Sanctuary. To bed about 2220. Set 4 Mus. spec. in Dave's room by rest holes.

Aug. 14

Checked traps by River first. Had 1 ad. ♂ Hydromys chrysogaster in rat trap set along edge of river & baited with banana. One other similarly placed rat trap was springing. None of the other traps was touched. Brought Hydromys back & took a bit of liver for cell culture but I think he was probably dead too long. Vince got some blood out of the heart though. Then I checked by forest trap lines. Caught nothing. Skinned Hydromys, 2 ♂ Paramyscus & 2 Echinipsa. The latter 2 were brought in caught in our lg. traps. Talked to Greene regarding the Peromyscus skinned last night & he gave me the locality data. During the afternoon, caught a shrik (no. 3153) in one of the 4 Mus. spec. traps set last night in Dave's room. They caught nothing overnight. At about 1530

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Aug. 14 cont.

Bruce picked Dave & I up & took us to the Baiyer R. Agric. Sta. where we had a scheduled radio discussion with Sibley & Tigi. He had sent a message that he wanted to talk to us via the Sta. this AM. Basically Charles wanted us to arrange to get the Baiyer R. equipment moved to Goroka on Monday (Aug. 18). He also told us that Al Brush had booked Vince & I on an 0830 flight from Hagen to Madang on Aug. 17. Gravatt is to go to a sawmill at 9000 ft. for 3 days & then join Sibley et al. in Goroka. Checked traps along river & rebait. lg. live traps. Vince & I set 14 additional Sherman's in the tall cane grass in that area. Then I set 5 more Sherman's up in (3) & around (2) a large vine & epiphyte covered tree behind Tas's house in a strip of forest. After dinner, finished my 2 bandicoots, prepared the skins & finished 1 Pseudocheirus. Then a hot bucket shower! To bed 2140. Vince set out more new traps today.

Aug. 15

In River traps, caught nothing altho 3 rat traps were sprung. Picked up the rat traps. In lg. tree behind house caught 1 rat in the tree (no. 3158) & 1 at base of tree (no. 1357) - both in Sherman's. One of Shermans out: tree was knocked over to the ground. In forest traps, I got

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Aug. 15 cont.

one very dk. colored melomys (no. 3156). A specimen of Philetor was brought in from a nest set along River with forest along the side. In the afternoon, a yg. boy brought in a ♀ Pogonomys (no. 3159) along with 3 nestlings (which were fed). Set 6 rat traps along river for water rats, spreading them out much more than before. Bait was banana & barbecued meat. Reset 3 traps which had been set around the lower bird blower - in the same vicinity (in tall cane grass). In the lg. trees behind the house, I reset the 5 traps (2 SL. & 1 rat in trees) & added another around base of tree (3 SL. around base). Then set 2 SL. in brush near tree & a line of 14 through the forest running along the bluff behind Tas's house. This follows the stream from which Tas gets water. Along the stream I set 3 rat traps & 5 Sherman's (all banana bait). Finally finished 1 rat trap to side of a fairly large tree near the house. Vincent set 3 lg. live traps around chicken coops for Satanellus. Greene had gone to Mr. Hagen today & reported that there was no flight to Madang on Sunday which Sidley told us we were booked on & they had never heard of us, so they made booking for us on a flight to Madang on Monday Aug. 18. Tas Hammersley came home from his trips & so we spent the evening chatting with him. Greene & Jim, & Ross (Robertson) were also over for awhile. Didier got

Brought in first lot of 17 traps in forest.

Tas is 42 years old.

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to bed until ~ 23:15.

Aug 16

Checked R. traps first. 1 rat trap was sprung, another caught a ♂ Hydromys chrysogaster (no. 3160) & another Hydromys was in a leg. line trap (1 of 4) set along the shore (visited little west). In the traps by the water spring (stream behind house), caught 1 Pseudomys (no. 3162) in a Sherman. In leg. lines, caught 1 Rattus (no. 3161) in a Sherman trap in the town (~ 10 yd.). Nothing in other traps line. Brought in 2nd line of 17 Sherman's set in forest & also 2 of the leg. line traps set along the River. Got ear cultures & liver sample from the 2nd Hydromys but didn't have time to skin it, so forge it. About 15:15 Tas's driver took all 3 of us to the Sanctuary where we were invited for dinner. Graeme didn't get there until 1730 so we looked around, & Vince & I got blood samples from: Dactylopsila - Lake Kopiago, W. Highlands

AH 3365 (W.RT 328)

Satanellus - Mendi Valley, S. Highlands

Vromys anak - Wapenamanda, W. Highlands

We finished the first 2, because Graeme had 2 of each. The Dactylopsila we almost lost from too much ether. We had to give it artificial respiration for about 15 min. When Graeme came we bled a few more of his animals (all least functional):

Phalanger sericeus - Hagen Range

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Aug. 16 cont.

Dendrolagus dorianus - Tari, S. Highlands, Papua
D. matschiei - brought from Lae & presumably came from the Huon Peninsula.
D. goodfellowi - Prungat Range above Tranna Valley.

Had dinner ~ 2100 - included Greenwalls', Jiro, Ross Greenwell, Tass, Vince & I & Dave, & "Bob" (a patrol officer from Baiyer River). We were celebrating among other things 4 of our birthdays this week (including mine). Got home & to bed about 2300. Tass had a flat tire on his truck which we had to change before we left the Sanctuary. Before we went to the Sanctuary I took Tass's truck & drove W. on his property to a fly. forested hollow that he had pointed out to me as a good place to trap. I set a line of 27 stations in this dense forest including some set ups in large trees.

Aug. 17

Rose at 0630 as usual. Picked up traps from wood water pump. 1 Sh. contained a Melomys (3163). Then went to River & gathered in all traps there. One set trap set along the edge of the River was gone. I searched down stream but couldn't find it. Another set trap was sprung. Then had breakfast & picked up west of Tropline. Camp nothing else. Dave helped me with the 27 trap line set out yesterday. Took 1 photo looking down Tranna Valley toward the Baiyer River Valley, or

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Aug. 17 cont.

just before the thick patches of forest and in earlier & from which I caught only 1 melanop (no 3156). Skinned the 1 melanop caught. Graeme came over with some more animals for from the Sanctuary:

Thylogale brunii – Mt Pugent, NW of Baiyer R.

Phalanger gymnotis – vic. Tranum Valley

P. vestitis – Mt. Pugent, vic. Tranum Valley (this is the ridge between the Tranum Valley & the Jimin R. Valley).

Pogonomys sylvestris – 2 from Tambul

P. mollipilosus – 1 from Tambul

These animals were all in exchange for a ♀ Dendrolagus goodfellowi which had come into camp 2 days ago & for which we paid $22. Graeme was especially anxious to get a ♀ of this species so we traded him. We then bled & skinned the Pogonomys & after lunch the Thylogale. The 2 Phalangers we are going to try to get back to Maiwara alive. When I finished skinning & salting the wallaby (gave the carcass to Jungat & Kumbruk), we started packing our gear as well as all the stuff that is to go to Sibley at Dorokha. In evening talked with Tas again & Graeme came over about 2:30. He brought about 1/4 lb Phalanger shells – mostly trophy specimens, & showed me why he thinks vestitis

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Aug. 17 cont.

is distinct species from sericeus. The latter has a smaller P^4 & lacks P^3. He has only 1 case of a skull with a vestitis P^4 & also lacking P^3. P. sericeus also has a darker tail & appears different in other respects. It sounds convincing. His sericeus skulls key out in our key to vestitis. To bed about 2315.

Aug. 18

Up at 0625, finished packing, had breakfast & left 0715 for Mt. Hagen. Tas had us move his truck & provided a driver. We got to Mt. Hagen airport about 0915. Left most of our gear there & then went to Steamships Co. where we left our misplaced box of frozen material in their walk-in freezer (Tas wrote us a letter to Mr. Peter Clifford of the freezer dept. to get us permission). Then we wandered around town, went to bank, post-office, curio shop. Sat on a lawn & wrote up notes. At noon we retrieved our specimens from the freezer & carried them to the Ansett office. Then we looked for the Lutheran where Graeme said he might meet us for lunch. We finally found it had lunch (no sign of Graeme) & then walked back to Ansett about 1300. ~~The~~ The flight kept getting delayed; it was a cargo plane coming up from Madang. About 1515 the airport bus finally took us to the airport. It arrived at 1615 & we finally got away ~1645. The plane was originally scheduled to

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Aug. 18 cont

leave at 1330. We flew high because of lots of rain storms. Finally landed at Madang about 1750. Naturally there was nobody to meet us. We managed to get in touch with Buster Bowman who is the Alpha Helix Customs agent in Madang. He picked us up at 1830 & we finally got to Maiwara at 1900. After dinner it was mostly unpacking specimens, talking with Sibley & others. It looks like the Darwin trip is up since Zweifel who was organizing it, is not able to get out of Daru until tomorrow, & only 1 scheduled flight goes in to Gorima per week, on Weds. (Aug. 20).

Aug. 19

Worked on 3 Phalangers, 2 from Green Dome which we brought back alive & 1 P. orientalis that Cogger & Wilson brought back from Kar Kar Island with them. Also skinned a Nyctimene (prob. single species) from Kar Kar. Zweifel did not get in again today. Baxter O'Brien went out & shot 5 water buffalo today (Bubalus). Apparently they were introduced a long time ago to work rice fields which never developed. Vince & I went to Alexishafen where 2 were brought in for butchering & got a good sample of blood. Then we looked around the old Alexishafen WW II airfield & saw a number of old wrecked planes (at least 1 was Japanese) & numerous bomb craters all over the old airfield. Worked on phalangers night

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Aug. 19 cont.

up to dinner time. We learned today that the Alpha Helix will be returning to San Diego in a few days. This is to allow Group C coming after us to go ahead with plans. Because of budget cuts if the ship were to remain here, Plan C would have to be cancelled. Got equipment together for a cave trip tomorrow.

Aug. 20

Right after breakfast, Vincent & I went to Madang. I mailed a box of culture vials to T.C. Hsu - Houston & then we headed S. looking for caves. We were hoping to find some way to get to Bili Bili Island where there are apparently 2 caves. We went to the Yagaum hospital & then to the Yagaum leper hospital on the road to the Sulphur Cave. The leper hospital is about ½ mi. farther S than Sulphur Cave. This is the road to the south of the Bol Gol River. We stopped at the hospital & asked about getting to Bili Bili. We were informed that this was wrong road & we would have to go back to turnoff at Yabloum. Then we went back to the main Yagaum Hospital & asked there about a cave which is supposed to be near the first village S of the Hospital. We didn't learn anything about the cave but found out that the village in question was called Banup & that the land near there is called Amet. We went to the village but found it deserted. About ½ mi. past the village we came to a house where we stopped & asked about the cave.

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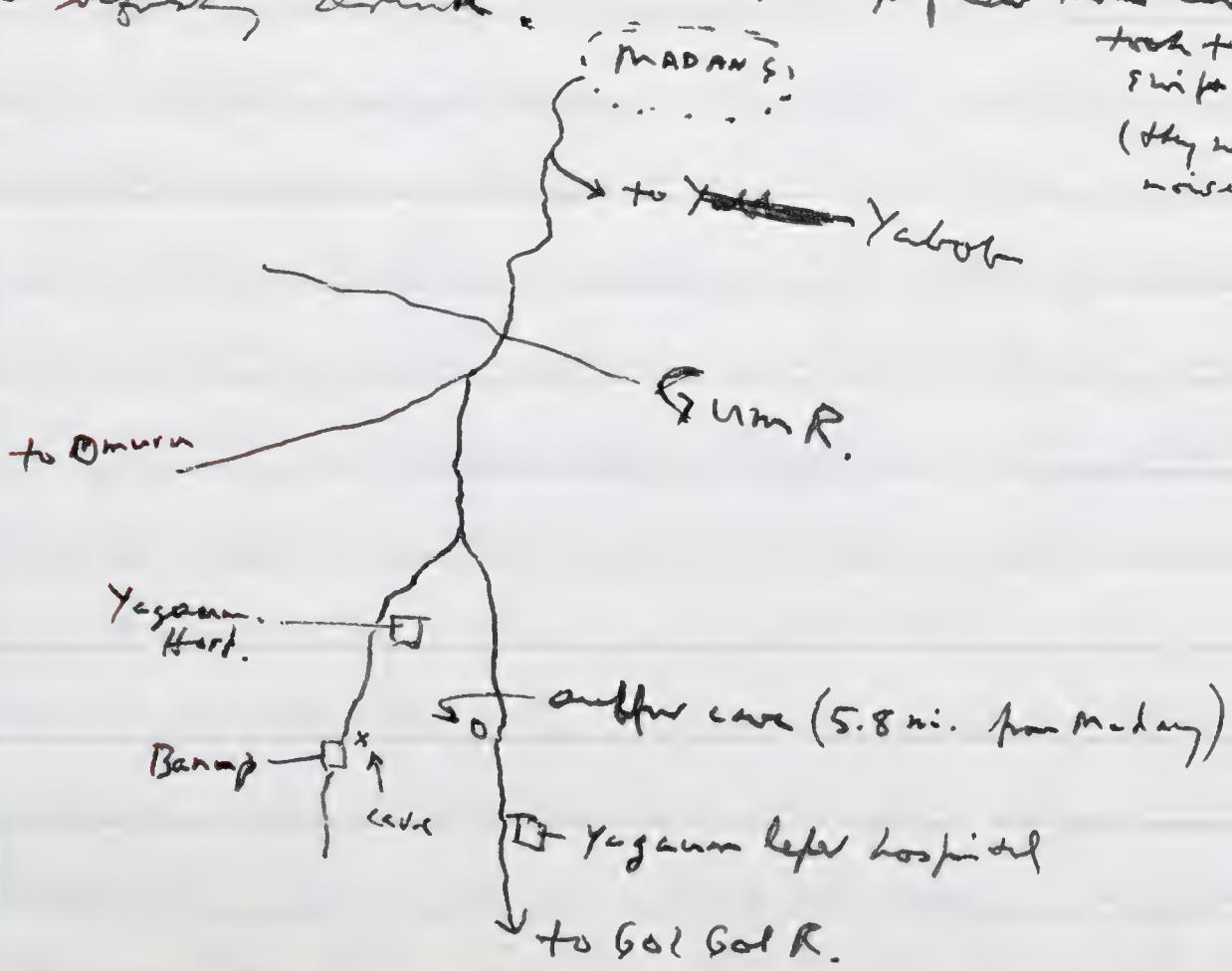
Aug. 20 cont.

A young fellow came with us to help us find Amet. We couldn't find him, but found 1 of his sons who showed us to a cave a short way ⊆ of the village. It had an entrance about 10 ft. high & bent in to the right. We started seeing bats very soon. We stopped to pick up a mist net in a narrower part of the cave, but couldn't very effectively close it off. Then we explored the rest of the cave. It eventually came out to another entrance on the side of a bluff with a vertical entrance of about 20 ft. We drove the 20-40 bats back toward the net & eventually caught 1 Miniopterus (no. 3172) + 5 Hipposideros galeritis. We also picked up a couple of frogs which were common just inside the first entrance. It was very hot & our friends climbed up a coconut palm & brought down 3, husked them & we had a refreshing drink.

Sev. things flew thru cave which we took to be the swift Collocalia (they make loud clicking noise like this swift.)



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Aug. 20 cont.

We got back to Maiwara at about 1245. We bled the Miniopterus before stopping for lunch. Skinned the M. & 1 H. galeritus from the Banup Cave. The Procavia & Phalanger maculatus which came in locally (Baxter bought it for $1) on Aug. 12. Zweifel finally got back from Daru. Vince & I worked through the Papua material & got the mammal material together including blood samples. After dinner I finished the Phalanger & skinned 2 of the animals the Zweifel brought back. Packed up ~~[illegible]~~ one of the collecting chests with specimens for putting aboard the ship tomorrow.

Aug. 21

Vince & I left right after breakfast to go back to Banup. (~½ mi. S of the Yagaum Hospital). We went ½ mi. beyond Banup to the house of the fellow who helped us yesterday. He took us down behind his house to a large cave. We walked a long way into it & it kept on going. We saw quite a few bats but we didn't bring a mist net. I shot two w/ .38 dust: 1 Hipposideros calcaratus & 1 H. galeritis. We thought maybe we would come back & put a mist net over the entrance. Then we followed Griffin's directions to a tunnel cave off the main road to Omura, just a short distance past the turnoff to the Yagaum Hospital. It is to the N of the road & a stream flows through it. This cave we are calling Tunnel Cave,

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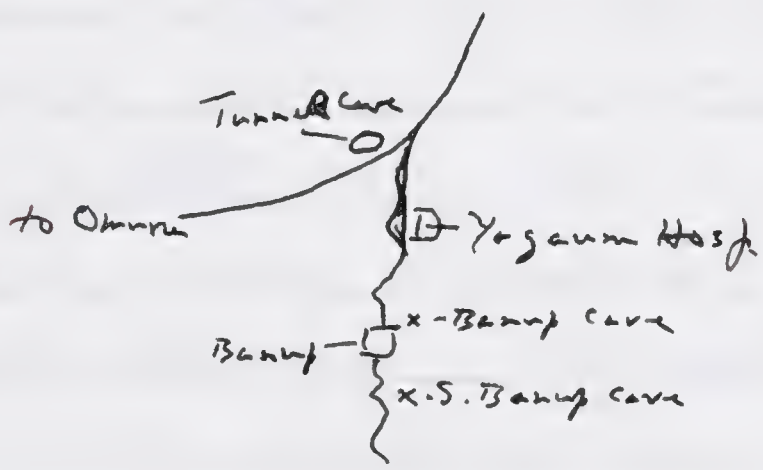
Aug. 21 cont.

7 mi. W, 3 mi. S Madang. The earlier cave we are calling South Banup Cave (6½ mi. S, 4½ mi. W Madang) to distinguish it from the Banup Cave we were in yesterday. Tunnel cave has a very high roof & we shot 3 Hipposideros calcaratus, 3 H. galeritis, & 1 H. diadema from high on the cave roof. There are also a few Dobsonia in the cave, possibly both minor & wolveensis.



S. Banup Cave also had 1 or 2 Collocalia flying in it. We returned to Maiwara about noon. After lunch 6 of us went into Madang to the Sepik Curio shop. We had arranged with the owner to show us through his warehouses starting at 1300. We bought lots of stuff, mainly Wilson & Sarick did. Picked up some equipment at the airport on the way home. Back at Maiwara we packed up the artifacts for putting on the ship, packed a crate with bird traps, etc., & also finished packing one of the specimen chests. Lots of gear was carried on the ship. Skinned several bats from this morning's trip. To bed ~ 2300.

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Aug 22

Carried several more boxes to ship. Baxter gave us his 3 "pet" Phalanger maculatus which Vince & I bled & I got lung cell cultures before we froze them. Also obtained 2 bats legs over from yesterday. Also a wriggling Petaurus from Manam Island was injected & a marrow culture made. This was one old Cogger brought back & they were feeding it sugared milk. Also last night it avidly ate flour-paste. We killed it because it had suddenly developed cataracts in both eyes (No. 3183). The Alpha Helix left Madang at noon. We went to Madang for refueling. Finished working on animals after lunch & then wrote a letter home. At 1500, Sibley, Brook & I went into town. I got my ticket endorsed at Burnett for the trip home, went to post Office where we tried unsuccessfully to call Bill Peckover in Pt. Moresby (W.S. Peckover, Box 783, Pt. Moresby - home phone 55177). Then we went to the ship. I fixed some specimens in the freezer on board & found that my trunk of specimens had been stowed on its end. Rectified this with help of captain. Went to airport on way home. It was too late to set trap by the time we got back to Madang. Talked, read & showered in evening. Went to bed early.

Aug 23

Wrote letter to Mr. W.L. Conroy, Director of Dept. of Agric, Stock & Fisheries in Port Moresby

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Aug. 23 cont.

requesting an export permit for the specimens I expect to carry out with me. Went into Madang with Bob Storey. We put a few specimens on the ship; I went to the bank, & sent a telegram to Bill Peckover telling him that I'll be in Moresby on the 27th. Also briefly visited Sepik Curio & picked up 5 small, cheap masks. Then we went back to the ship (which left at noon), & then to the airport to pick up some live harpies that had come in from Karkar. Back to Mainoru for lunch. It has not rained significantly for several weeks now & the roads are extremely dusty. After lunch, Tom Bobble, Vinca, Al Brush, Dean Behnke (2nd yr. student at Sydney U.) & I took a small boat & went out to the passage at the N. end of Sek Island & went for a swim & snorkel diving. About 16:00 Vinca & I went out to set traps. We went to a forest area about 2/3 of the way to Sanafin. We set out 44 traps on the east side of the road alternating Sherman's & rat traps (22 of each). Then we set a line of 13 Sherman's on the west side of the road in forest. Scouted some possible other areas for setting. Had shower before dinner as I was not only sweaty but covered with dust. After dinner wrote letter to Tai-fei & caught up on notes.

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Aug. 24

Checked traps (~2½ mi. N of Maiwara = 11½ N of Madang); caught nothing. Picked up a small hylid there & brought it back to base group. Took a few photos & then Vince & I left to make another attempt to get to Bili Bili Island. We turned S on small road which left main Rd. to Omura about 1 mi. S of the Sumu River where there is a trade store. This road took us to the coast & the village of Bil Bil which is just opposite the island. We talked to 3 different men in the village & they all agreed it would be difficult to get to the island without an out board motor & boat. They had only one man canoe & it was pretty rough besides. All 3 differed however on how many caves there were on the island & whether or not they contained bats. One said there was 1 cave, another agreed with our information that there were 2, & the third said there were 3. Also two claimed bats were absent at this time of year (presumably present at other times) & the third said there were bats present. I don't think they go out there very often. So we went back to the main road & continued S to Banup. We went to the S. Banup Cave & placed a mist net over the entrance. While we were working a Collocalia flew into the net from the outside. Then we returned to Maiwara late for lunch. Afterwards we took a number of pictures of the group, since Demaree, Copper, & Tom Babbel were leaving

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Aug. 24 cont.

at 1430 for an island hopping collecting trip starting on Manus Island. Took short cut & then went to set out more traps. Went to good forest ~0.8 mi. S. by road of the Mainoro turnoff. Set line of 25 traps which alternated one traps & Sherman except last trap which was a Mus. Spec.; bait banana. Then set additional line of 17 Shermans, giving total of 42 traps. This spot & 57 at other cave 11½ mi. N making for good total of 99 traps. After dinner Vince & I, Alan Wilson & Dean Betsuche drove to S. Bamp Cave where we arrived about 2020 to check our mist net strung across the entrance. It contained 2 Hipposideros galeritis, 1 H. diadema, & 2 large holes. All the bats seemed to be on the outside of the net heading in. Picked up frog at entrance to cave (no. 3192). Returned to Mainoro where I skinned the 2 galeritis & started work on the diadema before going to bed after 2300.

Aug. 25

Vince had already gone with the Toyota when I got up at 0700. It turned out he had gone to check the net at S. Bamp Cave. Besides another large hole in the net, we had 2 H. diadema, 1 H. galeritis & 1 Ascalliscus. ~~After breakfast I had~~ Most were too tangled to tell which way they were going, but Vince thought that at least 1 of the diadema was going in to the cave. After breakfast I checked the traplines. At 11½ mi. N Madang I picked up all the traps. Camphor 1

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25 Aug. cont.

♀ Hydromys chrysogaster (no. 3196), 2 Sphenomorphis jobiensis (no. 3194, 3195), & 1 large Tribolonotus gracilis (AH 2951, RZ 8721). The bigeyed were all in live traps; the latter was given to Zweifel. The Hydromys was in a rat trap set on top of a log. There are no streams in this area that I know of for at least ½ mile, maybe more. I checked but did not pick up the traps at 8½ mi. N Malang. Here caught 1 lg. ♀ Echimipera (lying next to a spring rat trap); no. 3191, 1 ♀ Melomys in a rat trap at the base of a large tree (no. 3188), 1 Sphenomorphis jobiensis & 1 Tribolonotus gracilis (nos. 3189 & 3190). ~~The bigeyed were given to Sh~~ The Sphenomorphis was in a rat trap & had bananas in his mouth; was caught while I was checking the traps. The T. gracilis was in a Sherman. It is interesting that all 3 mammals were caught in the 34 rat traps set as none was in the Shermans. A couple of other rat traps were springs. Skinned animals in late morning or afternoon. Vince went into town in the afternoon to remove the bat net from S. Banyu Cave. He also arranged overnight accomodations for us in Pasir Mondy for the night of the 27th. At about 1615 I went out to check traplines at 8½ mi. N. We had a hard rain earlier which was the first one in over a week. Had 1 more S. jobiensis in a Sherman trap. Set 3 additional 18" line traps along a stream through the forest. This stream seems to be slightly tidal & contains Periophthalamus.

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25 Aug. cont.

The new traps were also baited with bacon. Almost dusk by the time I got back. Took 5 more 18" line traps & went down into the extensive bamboo on the N. side of Maiwara & set these traps widely spaced. It was raining again & I got pretty wet. Took a shower; hard rain again & continuing to about 2000. After dinner I helped Vince get packed up for leaving tomorrow to Baraina.

Aug. 26

Helped Baraina contingent get off (Sarich, Zwifel, & Storey). Jiro showed up last night so he & I are the only ones left at Maiwara. Ross is going home to Bonoka with severe gastroenteritis. About 0800 picked up trap lines. At 8½ a.m. N had 1 frog (Platymantis) caught & single mus. spec.; no. 3198, and a Tribolonotus (no. 3199) in a Sherman trap. Several rat traps were sprung. Noticed hermit crabs using fresh water snail shells. ~~Two~~ Two of the 3 new traps set along the stream were closed — probably by rain; the third had the bait gone, but was not sprung. Picked up 5 lg. line traps set in bamboo; none was touched. A native brought in a green boa which I bought for 50¢ (no. 3200). Started packing up gear for going home. After lunch went into town to P.O., to mail last shipment of cell cultures to HSU, & to the bank. Then I went to Tuabab H.S. to find a Mr. John Hall, an art teacher who sells fins with New

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Aug 26 cont.

Guinea designs. Bought a set for $3.40. Delivered some blood samples to the Medical Hospital for Harold Cogger & came back. More packing afterwards & talked to Jim. Jared Diamond also came back from a month on Mt. Albert Edward in Papua. Far domestic we had a visit from Mr. Wm Filewood of the Dept. of Agric, Stock & Fisheries in Pt Moresby. He is in the fisheries branch, but is an avid bird watcher & also interested in mammals. He offered to formally cooperate on mammal ~~[illegible]~~ projects in the future. Finished packing gear in evening.

Aug. 27

Jim came in with me to the airport; the plane was scheduled to leave at 0845 & actually got away about 0900. The Crawford Greenwalt's were on the same plane. The Fin: starve's were spectacular as usual. It was raining in Lae. Arrived in Port Moresby about 1130. Ken Lamb was there to meet me. Also saw briefly Lord (Bathurst) Medway, from Shelquist & Rollin Baker at the airport as they were on their way to Milne Bay. Also met Mr. Downes at the airport who is with Agric. Dept. & who I have corresponded with. He is interested in crocodiles or wallabies. Ken Lamb took me to his home for lunch & then to the Univ. where I met Dr. Jim I. Menzies of the Biol. Dept. who is interested in mammals. We talked. He showed me around the Univ. Then we drove to the

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Aug. 27 cont.

Dept. of Agric., Stock, & Fisheries so I could look into the matter of my export permit. With this letter of approval we went to the Custom's office & then filled out 6 copies of a form. Then Jim showed me around town, including the market, where a number of dead wallabies were for sale (a few W. agilis & Dorcopsis). Georgios says he has not seen a Thylogale wilcoxi in his 14 years in the country. Then we went to his home for a few beers, & he drove me back to the Papua Hotel in town. I had lunch & then called Bill Bechore & chatted with him on the phone. I had tried unsuccessfully to call him earlier, & Georgios & I had also stopped by his home about 1800 but no one was there. Wandered around streets of Moresby for a short while. Wrote letters to Savick & Baxter O'Brien.

Aug. 28

Took few photos around Port Moresby. Went to PO. at 0830 & mailed box of specimens. Then checked out of Papua Hotel & walked up the hill to the museum (Papua & New Guinea Public Museum & Art Gallery) to see Roy McKay - freelancer & only qualified biologist & anthropologist on staff. He showed me the museum collections & we talked about his work. They have only ~ a doz. mammal skins & maybe a hundred specimens in alcohol. They also have a few hundred bird skins. McKay's address & that of the

L. Dickson
1969

Aug. 28 cont.

Museum: P.O. Box 635, Pt. Moresby. Went back to Papua Hotel to await the TAA airport bus. It came about 1115. At the airport I waited some more. The flight was due out at 1230 & we finally left about 1305. Saw Sidney Lamb at the airport & talked to her briefly. Less than 3 hr. flight to Brisbane & only 1½ hrs. to Sydney. We arrived about ½ hour behind schedule. Basil was there to meet me. We took the airport bus & train to his flat in Kirribilli. There I had a delightful evening with Basil & Judy. Judy is "tutor" in Zool. Dept. at N.S.W. Univ. in Kensington. Stayed overnight with them.

Aug. 29

Went in to museum & worked with Basil on our two joint papers, but didn't get too far because of numerous interruptions. Geoff Sharman came by about 1200 & at 1300 we met his wife Barbara & they took us to lunch at a place somewhere in the direction of Kensington (Paddington?). We got back to the museum at 1415. Jack Mahoney (Dept of Geology & Geophysics, Univ. of Sydney) was there & we talked about students, etc., until about 1600. After that Basil & I finally got back to work. At 1700 Judy showed up & shortly we headed for the TAA office to get on bus to Mascot (airport). Arrived at airport at 1805 for flight at 1900, just in time for cups of

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Aug. 29 cont.

coffee with Basil & Judy before boarding the aircraft. After leaving Nadi (Fiji) I tried to sleep; maybe got 1 hr. sleep or more. The sun came up at 3 AM Sydney time. Fiji is 2 hours later than Sydney. They served us breakfast before we landed in Honolulu at ~ 6 AM Sydney time (10 AM in Honolulu). At 11 we were off for San Francisco. Five hours later we landed (4 pm in Hawaii & 7 pm in San Francisco).

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Oct. 17.

Autopsied some of the Microtus californicus caught on Brooks Island on Oct. 12 & kept ~~in this~~ alive in cages since then. Jim Patton made bone marrow suspensions from them & also got blood from eye for electrophoretic studies.

JLP 1994 ♀ 143-46-21-14 23.4 g.

nulliparous; ov. w/ a few sm. to med. follic.; no molt or scars

JLP 1995 ♀ 149-51-21-14 24.6 g.

nulliparous; ov. w/ sm. follic. only — no molt or scars

JLP 1996 ♀ 158-54-22-14 27.8 g.

nulliparous; ov. inactive

no molt; small scab on rump.

JLP 1997 ♂ 156-46-21-13 29.1 g.

no molt or scars; testes 4 x 2½ mm.; et. not visible;

S.V. 1½ mm

JLP 1998 ♂ 175-58-22-16 36.3 g.

no molt; 1 scar on rt. flank; test. 6 x 4 mm.;

et. not visible; S.V. 4 mm.

JLP 1999 ♀ 156-50-22-15 27.0 g.

no molt or scars; nulliparous; ov. — sm. follic. in left ov. & sm. & few med. follic. in rt.

JLP 2000 ♀ 170+-54+-22-14 35.1 g.

~~nulli~~parous?; horns 1½ mm. wide, sl. vascular

ov. w/ small-med. follic. & few atretic follic.

no molt or scars; med. scabs on ears & tail; impf.; N. small—.

JLP 2001 ♂ 175-59-22-15 36.1 g. no molt or scars

test. 4½ x 2½ mm.; et. not visible; S.V. 3½ mm.

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Oct. 18

More Microtus caught on Brooks Island on Oct. 12 autopsied. Again Patton got bone marrow suspensions for karyotypes.

JLP 2002 ♀ 154-50-22-14 25.8 g. imp; no molt, + no scars. nulliparous; ov. w/small follic. only

JLP. 2003 ♂ 173-56-24-16 36.6 g. no molt or scars. test. 4½ x 3 mm.; ct. not visible; S.V. 2 mm.

JLP. 2004 ♂ 179-60-23-16 39.8 g. molt patches on shoulders; no scars. test. 6½ x 4½ mm.; ct. not visible; S.V. 5 mm.

JLP. 2005 ♀ 162-51-22-14 31.5 g. imp.; no molt or scars; nulliparous; ov. w/small follic. only

JLP. 2006 ♀ 151-46-22-15 25.9 g. molt on back, rump, left flank + lip. + rt. shoulder; no scars; imp.; nulliparous; ov. w/few sm. + med. follic.

JLP. 2007 ♂ 188-65-23-16 43.6 g. no molt or scars; test. 6½ x 4 mm.; ct. not visible; S.V. 8 mm. (very narrow)

JLP. 2008 ♂ 174-54-24-16 34.9 g. no molt or scars; test. 5½ x 3½ mm.; ct. not visible; S.V. 4 mm.

Fred McCollum also took organ samples from these above 7 individuals. Patton also got blood samples from these.

Oct. 22

One of Brooks Island Microtus escaped in Museum + was caught in live trap this morning. Was already dead so autopsied (no chromosomes on this one).

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Oct. 22 cont.

JLP 2011 ♀ 32.5 g. 166-46-21-14 No molt; 1 notch in left ear. Dorsal: P. sl. sep.; N. small –; pavs

Lt. horn – 3 pl. scars } Horns 1 mm wide
Rt. horn – 5 pl. scars

Rt ov. – 3 ripe folls. + 2 corp. hemorrhagica; no cl.

Lt. ov. – 1 ripe foll. + sm.–med. folls.

Two additional mice were killed & chromosome material taken yesterday:

JLP 2010 ♂ 43.1 g. 195-56-22-15 No molt; ears scars on margin. Test. not desc., but appear to have been desc. previously. Testes 6 × 3½ mm.; ct. not visible; SV. 9 mm.

JLP. 2012 ♀ 37.6 g. 158-43-22-14 No molt or scars. Dorsal: N. hilliaeus; ovaries inactive.

Oct. 24

Sugden Creek Field Trip with Mammalogy Class

Left MVZ 1245 for Sugden Creek. Jim Patton had left at 1030 with part of the group. Arrived about 1630, immediately started setting traps. After getting everybody started, I set line of 40 traps in pine forest on slope above station. There were scattered clumps of manzanita which I set some traps in. After dinner checked first 15 traps a.s.o. before my light gave out. Caught 1 Eutamias amoenus in a Mus. Sta. set down in a rock pile. Later it unexpectedly turned out to be alive & we put it in a cage. After looking over reference museum skins, the group had skinned a ct. found.

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Didn't get to bed until 0030.

Oct. 25

Got up ~0730. Checked traps after breakfast. I caught nothing in mine; several were sprung. Others caught chipmunks, & a few Peromyscus maniculatus. The latter must be very low in numbers. Clem shivered all morning. After lunch we had a gopher trapping lesson & almost everyone set traps (Mesber's & live traps). After this we split up Little Patton thing & group down to desert north of Reno to set traps. Fred McCullum & I took the west & first we went W of the Sta. to a large rock out crop where we set traps for Neotoma - mostly Scyler traps & some rat traps. A total of 13 Sclyleros & 11 rat traps were set here, baited with cooked beef & flavored butter-oats mix here for the most part. Then we drove to Hobart Mills & on past to a public campground & set 133 traps in a sagebrush flat. It was actually ½ a mile bitter brush. Returning to the station, several students set 32 traps in brush cover, now grown up to Ceanothus & fire seedlings, while Fred & I set 7 Sclyleros & 1 rat trap in a large boulder field along Sagehen Creek. There was a good amount of woodrat sign ~~in the~~ among these boulders. We got back to camp at dusk just in time to check our trapline around there. My line of 40 traps contained 5 Eutamias amoenus & 1 Callospermophilus lateralis. After dinner we

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skinned and did about 10:15 p.m. & then had a short discussion of various kinds of traps & rat nests in the lounge. Slept & had a little earthquake the last night.

Oct. 26

Picked up all traps starting locally. & got nothing in wire. Again it was a cold frosty morning but more overcast than yesterday. Temperatures during the night must have dropped again to about 20°F or less. In the rock outcrop W of camp we caught only 2 P. maniculatus. In the sagebrush maniculatus was abundant, & many were caught. Rod Jackson & I had a line of 40 small Sherman's & we caught 11 maniculatus & 1 M. californicus. Three of the maniculatus were released in the remaining 4 lines one was brought back & given to Rosenzweig & Psychology. The boulder field produced 1 P. maniculatus & a beautiful Neotoma cinerea. Susan Kistler caught a Sorex trowbridgii near the top of the ridge N. of camp. A small amount of skinning was done before we cleaned up, had lunch & broke camp. Patton caught a mole in a gopher trap at Kilin Meadows. Left about 1415 for the drive back.

Localities:

Sagebrush Sta. — 3½ mi. NW Holmes Mills 6400 ft. Nevada Co.

rock outcrop. — 3½ mi. W, 2½ mi. N Holmes Mills, 6500 ft. Nevada Co.

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Kilin meadow — Kilin Meadow, ¼ mi. W, 2½ mi. N Holbrook Mills, 6550 ft., Nevada Co.

rock slide by creek — 2.5 mi. N, 2.4 mi. W Holbrook Mills, 6280 ft., Nevada Co.

brown area — 3 mi. N, 1.8 mi. W Holbrook Mills, 6500 ft., Nevada Co. (this is actually on Sierra Co.-Nev. Co. line, so considered to be in latter)

sagebrush area — 1½ mi. S Holbrook Mills, 5800 ft., Nevada Co.

desert trapping area — 2.1 mi. NW Black Springs, 5320 ft., T20 N., R 19 E, Sect. 7, Washoe Co., Nevada.

Nov. 8

Autopsied group of 6 microtus caught on Brooks Island on Oct. 12 & kept in captivity since then. Two more had died during the week & were discarded. Another group of 8 ♂♂ had been killed for chromosome blood needed. The present group were also examined for chromosomes by Patton, & the carcasses preserved after autopsy.

JLP. #2024 ♂ 27.7 g. 161-54-23-15 no molt or scars; testes not desc., 4 × 2½ mm.; et. not visible; s.v. 2 mm.

JLP #2025 ♂ 38.7 g. 174-57-23-16 molt on flanks & hips; heavy scabies infection on ears; testes not desc. test. 7 × 4½ mm.; et. visible; s.v. 14 mm.

JLP. #2026 ♀ 27.2 g. 167-54-22-15 no molt or scars. sp. 2 mm. - 2 pl. scars + 1 faint scar

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NN.8 cont.

left. Lower - 2 pl. scars + 1 faint scar

ovaries w/ small - med. follicles.

JLP # 2027 ♂ 28.7 g. 172-54-22-15 no molt or scars. test. not desc., 4 x 2½ mm; ot. not visible; SV. 2 mm.

JLP. #2028 ♀ 35.4 g. 171-51-21-16 no molt, ol. scalpis & neck esp. rt. lower - 3 + pl. scars

lt. lower - 3 pl. scars.

ovaries w/ sm. to med. follicles only.

JLP #2029 ♀ 24.4 g. 157-46-22-14 no molt or scars. Lowers <1 mm. wide; left lower w/ 2 apparent pl. scars.

ovaries w/ sm. to med. follicles only

Hastings Nat. History Reservation Mammal Class Trip

Nov. 21

Left ~1300 with NIL & loop; part of class left at same time. Arrived just after 4. Went up Big Creek with Fred McCollum & several of class to set trap. Soon started to set after about ½ mile but moved on at least to Tungsten Rock line before setting. I set on edge of chaparral & fired way into on W slope where Madrone Canyon joins Big Creek (~2100 ft.). I set 14 rat traps & 3 lg. Sherman's mostly setting for Neotoma & Liptos. After dinner we set up Coleman for shining & soon shined nice complete last night near Tenaja Hot Spg. Talked in kitchen until ~2300.

Nov. 22

Got up at 0700. Approached person checked traps

DICKOK
1969

(Nov. 22 cont.)

in Chipman. Griffin says this is very mature stand, maybe 100 years old. Caught a Neotoma & 1 trail trip

Peromyscus californicus - 1

Peromyscus truei - 2 (1 is live trap)

Helped class with showing recs of SM. & put up one of my wood rats (#3205) & gave one to Dave Buller. Class showed a Peromyscus (#3204) the Jeff & I caught in 1 of 2 traps placed in the branch next to Davis' house. In the afternoon we showed the class how to set mole traps, setting a total of 10 in the yards around Davis' & Griffin's houses. Also showed class the brown creeper & deer exclosure. Then we walked up Schoolhouse Hill to see the Collom line through the oak woodland, & then went on to Schoolhouse Meadow. From there we came down the hill looking at perennial grasses, wood rat houses, etc. In the meadow at the base of the hill (above the wood) we found a lot of fresh Microtus sign. Then we split up. Patton took a group back to Jimmie Bell's ranch where some had set traps last night, & Fred & I took a group to Robertson Creek. At the mailboxes we proceeded up the country road to the gate leading into the Tregea property, parked & walked down to the stream. The stream was flowing & contained fish. There were quite a few patches of sedge & other lush vegetation that we set traps in as well as

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surrounding brush. There was also lots of Neotoma sign. I set 14 Mus. Sp.c. especially for shrews. When we got back to Sta. HQ ~~at~~, the sun had already set & we went rushing off to find the other trapline. I went up to the mouth of Madrone Canyon & recovered my 16 traps there (one live trap removed this AM). Like last night we returned after dark in the moonlight. After dinner there was time for a little skinning before 2015 when we got together in John Davis's living room for a slide show on this year in Peru. One mole was caught by evening in a trap in Davis' yard.

Nov. 23

Picked up traps at Robinson Creek immediately after breakfast. No shrews were taken. I caught only 1 jir. Peromyscus californicus (no. 3206). Almost all my traps were sprung, presumably by woodrats, & one was carried away. Sev. woodrats were also taken. Then I picked up traps at Madrone Canyon. I had 1 Neotoma (same individual which I had caught the tail last night — in same trap. Gave specimen & tail which I had saved to Bill Mitchell)

Perognathus californicus — 1 (in live trap) + 1 tail
Peromyscus californicus — 1 (no. 3207).

Group skinned until lunch, after which we cleaned up & left ~ 1445.

Lidicker, W. Z.

1970-1971

Catalogue

3218-3268

(New Guinea)
California
Europe

LIDICKER
1970

2 mi. S. Omuru, Madang District, New Guinea

July 25, 1969 (skinned March 14)

AH 2893 coll. J. Kikkawa 1 emb. x 26 mm.

3218. ♀ Nyctimene albiventer ~~30 g~~ 31.7 g. 116-22-15-14

Maiwara, 10 mi. N Madang, Madang Dist., New Guinea

July 25, 1969 (skinned July 22, 1970)

AH 2876 1 emb. x 23 mm, 19. hippo.

3219. ♀ Rousettus amplexicaudatus 72.7 g. 134-14-21-19

Brooks Island, Contra Costa Co., Calif.

March 28 (skinned Aug. 8)

3220. ♀ Microtus californicus 51.2 g. 179-48-22.5-13

3221. ♂ " " 61.4 g. 199-51-22.5-15

3222 ♂ " " 70.8 g. (skinned Aug. 10) 206-57-23-14.5

3223. ♀ " " 41.0 g. 169-42-21-13

3224. ♀ " " 58.7 g. 201-55-21-15

3225. ♀ " " 46.5 g. (skinned Aug. 11) 188-47-21.5-14

3226. ♀ " " 57.2 g. 192-54-22-15

3227 ♂ " " 57.3 g. 199-56-22.5-14.5

3228. ♂ " " 56.4 g. (skinned Aug. 12) 193-50-22-14.5

3229. ♀ " " 48.8 g. 192-52-22-13.5

3230. ♀ " " 53.8 g. 178-47-21-13.5

3231. ♀ " " 43.7 g. (skinned Aug. 15) 185-51-22-15

3232 ♀ " " 40.0 g. 172-42-21.5-12.5

3233. ♂ " " 54.7 g. 203-54-22.5-14.5

3234 ♀ " " 60.7 g. (skinned Aug. 19) 193-52-22-15

3235. ♀ " " 43.1 g. 186-51-21.5-12

3236. ♂ " " 64.2 g. 208-59-22.5-15

3237. ♀ " " 50.0 g. 180-45-21.5-15

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+
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Brooks Island, Contra Costa Co., Calif.

March 28 (skinned Aug. 21)

3238. ♂ Microtus californicus 57.9 g. 194-48-23-14.5

3239. ♂ " " 51.4 g. 193-48-22.5-13.5

vic Port Moresby, Papua, New Guinea

Aug. 21, 1969 (skinned Aug. 24, 1970)

3240. ♂ AH 4917 Uromys coll. R. Bauer + L. Madway 69.9 g. 275-124-44-17 test. 8½×4½ mm

3241. ♀ AH 4727 Uromys coll. R. Bauer + L. Madway 543 g. 620-306-62-26 no ent., lact. mamm. 0+2=4

Vic. Maiwara, 9 mi. N. Madang, New Guinea

18 July, 1969 (skinned 24 April, 1971)

3242. ♂ AH 4980 Syconycteris crassa coll. by A. H. Brush 14.3 g. 72-0-11-14 tests 3×2½ mm.

Brooks Island, Contra Costa Co., California

28 March, 1971

3243. ♀ Microtus californicus FCM. #794 41.5 g. 177-47-21.5-14 6 embs. × 7 mm.

3244. ♀ " " FCM. #760 46.5 g. 183-47-21.5-16 8 embs. × 7 mm.

3245. ♂ " " FCM. #779 57.2 g. 195-53-22-15 test. 9×5 mm.

3246. ♂ " " FCM #785 65.9 g. 204-57-23-14 test. 10×6 mm.

3247. ♀ " " FCM #790 42.5 g. 181-49-21.5-14 no embs.

3248. ♀ " " FCM #783 39.8 g. 172-45-21-15 no embs.

3249. ♀ " " FCM. #793 45.4 g. 176-43-22-14 no embs.

3250 ♂ " " FCM #786 67.5 g. 197-55-22.5-14 test. 9×5.5 mm.

3251 ♀ " " FCM #796 39.9 g. 179-48-21-14 no embs.

3252 ♀ " " FCM #759 35.5 g. 175-46-21.5-14 no embs.

3253 ♂ " " FCM. #761 50.0 g. 194-50-22-15 test. 8.5×6 mm

3254 ♂ " " FCM #750 56.5 g. 200-57-22-14.5 test. 8×5.5 mm.

3255 ♀ " " FCM #784 37.2 g. 180-47-21.5-14 no embs.

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+1972

Brooks Island, Contra Costa Co., Calif.

March 28

3256. ♂ Microtus californicus — FCM #764 test. 8×6 mm 40.8 g. 182-49-22-14.5

3257. ♀ " " — FCM #766 6 emb. × 10 mm 45.0 g. 189-53-22-14.5

3258. ♀ " " — FCM #754 11 emb. × 7 mm. 48.1 g. 191-54-21-15

3259. ♀ " " — FCM #751 3 emb. × 15 mm. 51.4 g. 187-48-23-15

Mayzz (caught on March 28, killed 21 May)

3260. ♀ Microtus californicus — 6 emb. × 7 mm. 43.8 g. 185-49-21-14

3261. ♂ " " — test. 8 × 5 mm 40.2 g. 183-49-22.5-14

3262. ♂ " " — test. 8 × 5.5 mm. 40.6 g. 197-52-22-13

Skomer Island, Pembrokeshire, Wales, U.K.

Oct. 10

3263. ♀ Clethrionomys glareolus skomerensis — 13 g. multiparous 131-42-19(18 su)-10

3264. ♂ Sorex — tests 1½ mm. 7 g. 105-37-13(12 su)-6

Oct. 11

3265. Sorex — 7.2 g. 116-38-14(13)-5

13 mi. N Mâcon, Dept. Saone et Loire, France

Oct. 24

3266. ♂ Microtus agrestis SKULL ONLY — found dead + rotten so no measurements. Adult size

Dolgue, 275 ± m., 2 km. S Claret, Dept. ~~Herault~~ Herault, France

Oct. 28

coll. by L. N. Ellison

3267. ♂ Sciurus vulgaris — test. 13 mm, desc., at. not visible 283 g. 399-178-64(59)-29

Whalsay Island, Shetland Islands, U.K.

12 March, 1972 (coll. 10 March by John Simpson)

3268. ♂ Apodemus — tests 12 mm. 25.7 g. 194-91-25(24)-16

Lidicker, W. Z.

1970 - 1971

Journal

California
Europe

LIDICKER
1970

Brooks Island Trip, March 27-28
(called Mr. Blanford on Brooks March 25 to arrange for visit)

March 27

Left LSB at 1315 with Les Kishler (RA), Ayesha Anderson, Yan Linhart (Genetics), & Aileen Kuda (RA for R. Eakin). Mod. east winds blowing all day, but otherwise sunny & clear, & warm.
Ayesha & Yan set 69 Longworth's between in the old grid area & Ayesha extended SE to N end of E side of Island. The rest of us went to the W beach & set out line of 29 Longworth's on the N half of the beach. Then we began setting Mus. specials as follows:

W beach (W of rd.) - 40 (Les)		a.
" - (S of Longworths) - 6		b.
bluff below W & S beaches - 22		c.
S. beach - 12		d.
21		e.
15		f.
7		g.

Returning to grid we set more Mus. Specials:

W side of grid (bluff top) - 7		h
above grid -	13 (Les)	i.
below grid (Salicornia, etc.) - 20		j.

~~total~~ Mus. Sp. = 163
~~total~~ Longworth's = 98
~~total traps~~ - 261

DICKEY
1970

March 27 cont.

When we arrived on the island we saw a body from gutter snake coming down the road carrying a rat. Microtus which it had by the head. When we grabbed the snake to examine the rat, he dropped it. We caught the mouse which was injured around the head but alive. A bird later in a Longtrap (specimen no. 1449). Later Yan L. found another snake with a microtus. This one was caught also (no. 1448). Snakes were seen abundantly & were very active. Several were seen drinking at the spring (N end of W beach). Before finishing setting of traps on W beach Les caught a mouse in a mousetrap (a BUFFY): no. 1447.

The vegetation was of common beach but more advanced than usual for this time of year. Very large areas of grass on the S. beach were already yellow, & here in other areas the grasses were bleached out. We also learned that last year the island had been sprayed with weed killer by helicopter & most of the Buckeyes were dead or nearly so. Also the buckeye trees were badly burnt with 1 of the 2 down the ⊂ spring appearing dead. In general there seemed to be much less in the way of wildflowers blooming than is normal for this time. Blanford is currently hand-spraying poison-oak & Rubus heavily to get rid of them.

Numerous phoebes were seen & heard again, & quite a few Calif. Quail. A few Bob-whites were heard singing as well. In addition to the snakes a few

LINDICKER
1970

27 March cont.

Gerrhonotus were seen also. Saw 1 Sh.-shinned Hawk + 1 Sh.-eared Owl. Notable evidence of Microtus predation by some bird on a post on W. bank. Leps related ~ 1800.

March 28

Another warm, sunny day. Picked up snap traps first + then Longworth's. Catch:

a.	7 (+1 caught last night)	g.	5 + 1 Gerrhonotus released
b.	1	h.	4 (1 caught last night)
c.	5 + 1 thrown away	i.	5
d.	5	j.	4
e.	5		
f.	3 + 1 lost. & thrown away		= 47 snap trapped

Longworth's - W. bank - 22 (2 dead)

grid area - 50

72 live trapped

Total catch = 72 live trapped, 47 snap trapped (45 saved), + 2 caught by snakes = 121 (only 1 of which was buffy; those thrown away were checked for pelage color.) This should give total of 119 specimens saved.

Several mallards were seen + about 15 Canada Geese; the latter in relatively tame since Blanford feeds them. Lindhart took back plant samples for later food choice experiments with Microtus. M. c. were seen abundantly + obviously are very dense locally - perhaps several hundred/acre.

No definite rat sign seen that we found, +

LIDICKER
1970

28 March cont.

house damage – traps that could be definitely attributable to rats. Blanford says that a few months ago a state public health official trapped about 30 rats & was searching them for fleas; no fleas found.

Left Island ~ 1145. This time we took Luis Baptista out with us (instead of A. Kuhn) & he recorded songs of Wh. cr. Sparrows.

When we got back to LSB, we went through live individuals & picked out 10 ad. ♂♂ & 10 ad. ♀♀ for Agosta, & killed the rest. Many of these 10 ad. ♀♀ were obviously pregnant.
(Of the 10 ♀♀ Agosta had only 2 litters were counted since the others were matted with ♂♂ the previously at the time when they were born. The 2 surviving litters did not contain ad ♂♂ present. They were litters of 5 & 6 & were all agouti.)

Sagehen Creek Field Sta.

July 31 – Aug. 2

Went to Station to work with Sheila Byrne who is beginning MA thesis project on Eutamias. On Aug. 1, walked to Independence Lake & back before lunch – very nice excursion. In AM of Aug. 2 went to Dave Taylor's beaver study area about 3 mi. above the Station on a tributary of Sagehen

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1970

Sagehen Creek cont.

Creek.

Eutamias amoenus & E. speciosus both very common & no obvious habitat distinction between them. Both sometimes seen on the same log. In open Ceanothus country above Independence Lake we thought we saw a E. quadrimaculatus, & about half way back a E. townsendii. Citellus lateralis abundant with many juv. out. Also saw quite a few S. beecheyii & a few S. beldingi. Other mammals seen:

Tamiasciurus douglasi

Marmota flaviventris - sign only

Odocoileus hemionus - including a fawn

Canis latrans - scat & possible footprint

Procyon lotor - footprints?

Thomomys monticola - fresh sign only

Castor canadensis - fresh sign only

Bird list:

Turkey Vulture - 1

Red-tailed Hawk - sev.

Sparrow Hawk

Killdeer (Gold Run)

Ring-billed? Gull - Independence Lake (v 10)

Mourning Dove - 1

Band-tailed Pigeon? - flock flew over Sta.

Hummingbirds - 5 or 6 seen

Red-sh. Flicker - comm.

(cont)

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Sugarloaf Creek cont.

Acorn Woodpecker – ~~—~~ W slopes of Sierra only
Hairy Woodpecker
Ash-throated Flycatcher – sev. around beaver ponds
Black Phoebe – 1 (Gold Run)
Empidonax sp. obs. oberholseri – sev.
W. Wood Pewee – abundant & nest w/ 3 yg. found.
Olive-sided Flycatcher – sev.
Violet-gr. Swallow – Gold Run & elsewhere along highway
Cliff Swallow – Gold Run & elsewhere along highway
Steller's Jay
Scrub Jay – W slopes of Sierra only
Mountain Chickadee – abund.
Wh.-br. Nuthatch
Brown Creeper – 1
House Wren? – 1
Robin – abund.
Mountain Bluebird – 1
Townsend's Solitaire? – 1
Orange-cr. Warbler – ~5
Nashville Warbler – ~15
Yellow Warbler – 1 (beaver pond)
Audubon's Warbler – many
Hermit Warbler – 3-4 but no ad. ♂
Townsend's Warbler – 1 ad ♂ ?
Wilson's Warbler – 1
Brewer's Blackbird – abund. – Gold Run & along highway

(cont.)

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Saylor Creek cont.

W. Tanager
Cassin's Finch
Pine Siskin
Oregon Junco - abund. - sev. nests seen
Chipping Sparrow - 2 s
Wh.-cr. Sparrow - 2 s
Fox Sparrow - com.
Song Sparrow - 1

Brooks Island Field Trip

(called Mrs. Sam Blanford 2 weeks ahead of time to arrange for trip).

Aug. 31

Left ~ 1330 with Argyle Anderson & Les Kistler. Ar. on Island ~ 1440. Sunny with mod. W. wind; warm. Wind died down later in afternoon. Set out ~~live~~ live traps for Microtus on N end of Island in old grid area. Quite a bit of fresh sign was seen in this area & 1 house was found in the grass, so there was no need to forage further. It was of course very dry. A few daisys were blooming & an occasional mustard. Some Elymus stalks still had green stems. Set out total of 131 traps (30 Sherman & 101 Longworth's). I set out 39 Longworths in upper pt. of old grid & in the central east part of the grid, & then 16 Sherman - 9 along the grid & 7 along W side near edge of bluff = 55 traps. Les set out 37 Longworths to SW of grid (W of jeep

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Aug. 31 cont.

road & 9 Sh. along edge of bluff = 46 traps.
Argyota set 25 L. on N & W side of old grid
& 5 Sh. on grid = 30 traps. I saw only ehrlt.
Thoroughly elegans 5 of the old grid. It was the
only one seen by us during the afternoon. By the
time we were finished setting, I had caught 2
mic & Argyota 2 also. These were all picked up
& brought back with us. One of the ones I caught
was transferred to a broken trap & the good trap reset
in the same place. Left Island ~1700. It was
still sunny & warm & so the increased vole
activity by this time suggested to us there must
be quite a few mice around.

Blanford told us that he had poisoned over
200 rats during the year & a few "field mice" as
well. Blanford's have been feeding geese, a variable
number arriving, but yesterday they had a peak number
of 14.

Sept 1

Ar. on Island (same crew) ~ 0810. Picked up
traps. No mice seen or heard & no gulls around. Overcast
& cool. Catch:

WZL - Longworth's (group of 20) - 7
(group of 19 - now 18) - 15
Sherman's (9 above grid) - 1
(7 edge of bluff) - 1
24

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1970

Sept. 1 cont.

Les: Longwinds (37 trips) - 16
Sh. - (group of 3 SW of grid) - 2
(edge of bluff) 6 on - 1
19

Ayesha:
Longw. (25 trips) - 7
Sh. (9 trips) - 1
8

Total catch: 51 + 4 last night = 55

Mr. Blanford told us that he was having a little trouble with Mr. Hornbeck (head of land procurement section of Park Dist.) over terms in the Club's lease, but otherwise relationships were pretty good. Were 14 Canada Geese feeding in their yard & 1 Black Brant nearby which Mrs. Blanford says comes & comes with the honkers.

Ayesha collected some seed samples from various potential Microtus foods after we finished with the traps. Left Island ~1000.

The sample of 55 included 1 ♂ buff. Ayesha took this 1, & 12 ♂ & 12 ♀ agonis into her colony for breeding. This left 30 agonis which were killed for autopsy. Ayesha reports all mice appeared to be healthy.

Autopsied 30 dead mice on Sept 2 & 3. Almost all had fleas - mod. mites & there was enough fleas around to have at least a few per mouse. There was both a small & very large flea.

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Brooks Island Trip

Mar 22 Called Island & got permission from Mrs. Blanford to trap on Island on March 27-28.

Mar. 27

Ar. on Island ~1415 with Agnete Andersen, Judy Myers, and Fred McCollum. Began setting traps by 1420. Beautiful day, sunny, warm, & clear, mod. westerly winds lessening during afternoon. Vegetation lush; many flowers blooming, some grasses starting to head out. To start with we each set 50 Longworth's:

Andersen: grid west, N pt., below water tank
McCollum: " " , S. pt., above water tank & extending E to rd. on E. side.
Myers: above grid & extending to slopes of N. point.
WZL: Salicornia & Distichlis below grid - 25; N half of W. beach - 25

Then Fred, Judy & I walked around Island. We saw group of 10 small Shrews in perennial grasses S of N. point (near ridge of Island) & another group of 11 small Sh. along the E end (~½ way between house & beaches.

Mice seemed to be only in moderate numbers; I estimated 50-75/acre. Several garter snakes were seen & 1 Red-tail Hawk. Few blk-cr.

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27 Mar. cont.

Eight broms were in the brush-rows on the E side. Total of 221 traps set (all live traps).

Lots of shorebirds & ducks & other waterfowl seen including: Long-billed Curlew - 2; Snowy Egret - 1; Bufflehead - 6; Golden-eye ~10; Canvas-back - ~20; Red br. Merganser - 2; Gr. Scaup ~10; Mallard - 2+; Canada Geese ~6. Took a few photographs around Island, but camera got wet by wave coming over. Left Island ~ 1715.

Mr. Blanford showed us the new rat poison they are using. It is imbedded in paraffin & then placed in cardboard cylinders around the island. He claims that it is very effective for rats & that they had not seen a dead or live one for some time, & that this bait is much less attractive to Microtus than was the previous poison which was grain or cracked corn. He felt this method would have no impact on the Microtus population.

March 28

Another beautiful day. Grass was wet early in the morning (dew?). Arrived at 0830 with same crew + Yan Lindquist. Picked up traps hurriedly because a hunting party was due to arrive a little after 10 AM.

Sherman traps: top 1 island - 2
E. side - 3

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28 March cont.

Anderson - 20
Myers - 17
McCollum - 25 (1 was caught before we left last night & trap reset).
WZC - 15 (5 in Sali-Dyst. + 10 from W bench)
82

However, when we got back 1 trap was empty, & another had allowed the mouse to escape. Another got away in the animal room. So total catch should be 81.

Fred brought along a straight stick he uses for counting running transects. It is 6 ft. long & has 4 ft. marked on it so 10 ft can be sampled each time it is placed on the ground. We placed the stick 19 times & counted active runways. We took turns throwing it & sampled the grid area & one row to the N. slope. We got the following counts: 0, 2, 2, 2, 0, 2, 0, 0, 0, 0, 3, 3, 0, 0, 0, 0, 0, 1, 3. = 18 runways in 190 ft. or
9.47 " in 100 ft.
x 9.7 = 92 mice / acre.

Since we did not place the stick in shrubby areas or other places of poor Microtus habitat, but only in the areas actually trapped, this estimate is probably too high for the island as a whole.

Ayesha picked out 24 adults (12 ♂ + 12 ♀) for taking to her colony & testing for heterozygote buffo.

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28 Mw. cont.

We killed the rest over the next two days taking blood & organ samples from them.

The sample of 81 contained 18 ♂ buff.

Skokholm Island Trip

Sept. 10 – Sept. 18

Sept 10 Left London with Mike ~~Jorgenson~~ Jakobson (research student of Sam Berry's) & Helen Murphy (Dept. of Animal Genetics, Univ. Coll.) & drove west to Marloes on the coast of Wales (Pembrokeshire). It was a clear sunny day. We crossed the Severn Estuary on the new Severn bridge north of Bristol. We had lunch in a pub near Ragland (Monmouthshire). The only birds noted particularly around were Rooks & Jackdaws. We arrived in Marloes about 6 pm. where we were booked into a hotel called the Lobster Pot. Then we walked about a mile to Marloes Beach. Saw rock sign in 1 feature we ~~saw~~ crossed. At least 4 kinds of gulls were seen: Herring, Gt. black-backed, Lesser black-backed & black-headed. Also saw a Sandwich tern flying along the beach. Also noted various migrant. buntings, something that was ~~possibly~~ perhaps a ~~Dartford Warbler~~ Whinchat, swallows, martins, etc. We returned in time for a drink & dinner at 8 pm. At about 9, ~~Dr.~~ Prof. Dennis Ballamy and his student John Morgan arrived from Cardiff to join us. We chatted until after 11 pm. Route we took from London: M4 to Windsor, the NW to Wallingford, Faringdon & Cirencester, the SW to Sodbury picking up M4 again to cross the Severn; N on backroads to

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Rayland, & then A40 through Brecon & Carmarthen to Haverfordwest.

Sept. 11

After breakfast we went to Martinshaven where we were to get a boat to Skokholm Island. The boatman had not yet arrived and the wind was blowing stiffly from the east. We walked up onto the headland & then back to the harbor. About 10 the boatman arrived (Terry Davies from St. ~~Francis~~ David's). The weather was clearing a little but the wind was still strong. At 11:15 he left for Skomer Island with a load of "day trippers", promising to return for us. We waited until noon ~~and~~ when Davies returned & we loaded our gear.

Around Martinshaven we saw: Pied Wagtail, Robin, Raven-2, Jackdaw, Drunnock, Yellowhammer, Linnet, possibly the Twite, Buzzard-1, Gannets, Cormorant (I caught a sight of a large fish in the haven), domestic pigeon, starling, swallow, Lesser spotted woodpigeon, Oystercatcher-lg. flock. On way out to island saw also a shag. The trip out was very rough & we all got soaking wet. We had to land at the "South landing" on Skokholm which is just a slightly sheltered pocket of rocks below a cliff. (The north landing is a better one, but unavailable when easterly & southerly winds are blowing which they were then - strongly). After a rather precarious landing we carried our gear up the cliffs to the Bird Observatory, & had lunch about 2 pm.

Baited up 100 Longline hooks & took 50 to the lighthouse on the south end of the island, around

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Sept. 11 cont.

which we had permission to trap. I personally set only 10 traps along the cliffs west of the lighthouse (there were 5 of us setting). Then we visited the lighthouse & paid our respects to the Keepers. They gave us a cup of tea, & we watched wrestling on the TV. Returned to the Observatory & set 50 traps around there. I set 3 around the wood shed & Mike & I put out 15 along the rock walls in the vicinity. Some traps were also set inside the buildings. After dinner I walked around island & with David B (a birdwatcher-amateur from Devon who was the only other member of our group) went looking for Manx Shearwaters. We walked to lighthouse at dusk & saw 39 fledglings wandering about. 35,000 pairs reportedly breed on the island, but the adults are about all gone. Other birds noted: Curlew (heard) Lapwing, curlew sandpiper? - sev., & many unidentified smaller birds. Bellamy & I set up bow-trapping in the loft of the cottage. Got to bed a little after 11 pm.

Sept. 12

Got out about 0745 & wandered around looking at birds. With Barry's help (Chambers) identified Reed bunting, Rock pipit, Snipe, & Richard's Pipit (a rare accidental from Asia). Also dom. pigeons, starlings, robin, blackbird, Wheatears. There were also lots of warblers about - of the willow w.-chiff-chaff types. Took some photos of Obs. & finished I 20 exp. roll. After breakfast (0900 as it was Sunday) we checked traps

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Sept. 12 cont.

at the lighthouse. I had only 1 MUS, but a total of 16 were taken from the lighthouse area. Returning to the Obs we checked the other 50 traps; I had 2 for 3 and the crew had a total of 24 mice were taken for a grand total of 37. Processed mice starting after lunch & continuing until 9 pm with break for dinner. Finished only 19; a 20th one escaped in lab while processing.

Barry has Carrion Crow which is very tame. He raised it from fledgling (born in April). It came around begging for food during much of mid-day.

At 2210 we all walked to lighthouse & gathered up 99 shearwaters while Barry weighed them. We caught 108 in about ½ an hour. In addition I caught 1 adult which was released. We got back about 11:45 & had coffee before turning in. A few 99 still had downy feathers on them & I saw one which was almost completely covered with down (it was not disturbed). We also checked our traps near the lighthouse, except for the ones Helen set immediately around the lighthouse, but including the 9 remaining ones of my line - nothing in any of them.

Sept. 13

Got up at 7:30 & looked around until breakfast at 0830. Some interesting birds seen were: 2 pipits - either Meadow or Tree, probably latter as they were dumpy-looking & seemed to have pink legs, Red Crossbill, rock pipits, Wheatear, Spotted Flycatcher,

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Sept. 13 cont.

several "willow-chifs" (unident. Phylloscopus)

After breakfast we picked up all traps. I got 3 mice in my 9 traps near lighthouse, & Helen had 1 in hers. Mike & I got 3 mice also in our 10 remaining traps along walls near observatory. We got a total of 11 mice, but this did not include the 1 that escaped in the lab yesterday. Near lighthouse saw Gannet - 1+ & ~6 Kittiwakes (incl. 1 imm.). Processed mice until 1830. Finished up the 17 remaining ones from yesterday & all 11 from today. Of the 17 held overnight, 3 were dead in the morning - all were ♂♂ from the kitchen & all had dissected kidneys. Other birds seen later in day: White Wagtail, Skylark, Wren, Snipe, & Kestrel, Winchat-sp.

After dinner we set 29 traps at Frank's Rock-wick in the cliffs along the SE side of the island - along which Razorbilled Auks breed, & then working until 2100, we (mostly Mike) set 30 more on the neck. Mike & Dennis B. earlier set the remaining 41 traps around the observatory, so all 100 are out. This was an absolutely beautiful, sunny & warm day. Too bad we had to spend most of it in the lab.

Sept. 14

Another beautiful warm day - entirely too much of it spent in the lab. Mike checked the traps on The Neck - & we had 8 mice from there. Other traps were

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Sept. 14 cont.

Checked after breakfast, & pulled one second. Franks Rocks produced 9 mice (& caught 3 in my 9 traps, 2 of which were recap in more favorable locations, leaving 6 in that area). The traps around the buildings produced 10 mice for a total of 27. At Franks Rocks I discovered a nest of the Stock Dove, located under a large slab rock & containing 2 squabs. Last evening I found a dead Lesser Black-backed Gull with a ring (it had been banded in Arg. as a juv.), along the cliffs at Franks Rocks.

In looking around before breakfast saw Garnet-2, family of 4 plus Jack-daw-size, & 14 of the 16 goats (& 1 sheep) on the island. Observed a jack-daw land on the horns of one goat & after a while jump onto its back. Processed all 27 mice caught altho 3 had to be done after "tea". With Dennis, set 12 traps around observatory building (5 in & around workshop, 2 in & around the wood shed, & 5 by the garbage cans) to supplement those left out from last night. We also found a trap that D.B. had missed this AM; we released the young mouse it contained. This trap was later set in the kitchen. Meanwhile Mike set 15 traps at N. cliffs. All 100 traps were again out. We have now processed a total of 75 mice, 3 of which were dead & 1 escaped in the process. Read "The Island" by Ronald Lockley (pub. 1969 by Andre Deutsch) - the story of his life on Skokholm & its history.

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Sept. 15

Overcast but warm day; some sun in late afternoon & evening. Mike checked traps on the Neck before breakfast & caught 8 more birds. Afterwards we took in the remaining 19 traps at Frank's Rocks; caught only 2 more there. The N cliff traps produced 6, and traps around the building 7. In addition 1 trap missed yesterday was found with a live warbler (on nearby walls). This gave a grand total of 24. We worked on the birds until 1800 finishing them all & bringing our total to 99 for season. After dinner we went to Spy Rock area & set 30 traps (& set 15 of them - 10 on Spy Rock & 5 along adjacent cliff). This left only about 14 traps unset.

Saw a gray seal (probably a ♀) while we were setting traps near Spy Rock. There were more migrants around today than yesterday, & chiff-chaffs particularly were common. I caught 2 of the latter in large funnel bird trap for Barry to ring. Other birds seen of note:

Pied Flycatcher - seen (& also determined that questionable one seen yesterday was this)
Spotted Flycatcher - 1
Garden Warbler - seen (& watched Barry band one)
Blackcap - seen Barry band one only
Stonechat - seen Barry band one only
Mallard - 2
Oystercatcher - lots
Turnstone - 1

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Stock Dove - 2 adults + 2 squeals
Garnet - 1
Cuckoo - 1, Starling - sev.

At dusk helped Barry put up bird nests at "North Pond" - in which he shortly caught a snipe.

Sept. 16

Another warm day, but foggy until about 1730 when it gradually cleared up. Light winds from the west. Before breakfast saw only: Wrens - 2 + Gold crests - 2 (from both, but identified by Barry)

We picked up all traps except those at Spy Rocks. Catch:

The Neck - 2
Spy Rocks - 7 (2 got only 2)
N. cliffs - 5
Compound area - 4 Total = 18

We processed 10 of the 18 animals + released the other 8 for transport back to London. One of this group gave birth to 5 yg. (no. 106) in the trap, so we saved 3 of her neonates for additional information on thymus + brown fat. In the afternoon we searched the compound for missing traps + found 5 plus a trap apparently lost a year ago. In 1 of these 5 traps were 2 juv. ♀♀ which after dinner we processed as nos. 1188 + 1189 - making catch for the day = 20. About 1730 to 1825 we took 25 traps + set them along the NW + W cliffs of the island. This, with the 23 remaining at Spy Rocks gives us a total of 48 traps out. From 1450 to 1610 I took a walk along W side of island

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Sept. 16 cont.

walking up near the lighthouse & coming back down the center of the island. Some of the birds seen were:

Gulls - 4 species	Turnstone - 8+1
Gannets - 10-15	Dunlin - 1
Sky or Cormorant - 5	Lapwing - 11+
Stock Dove - 2	Oystercatcher - 6+
Starlings - num.	Skylark - ser.
Rock Pipits - abund.	Jack-daws - ser.
Carrion Crows - ser.	

On trip setting mission we also saw a Kestrel, & Pied Flycatcher

Sept. 17

Today was the first day more like Sept. Today. The wind blew from the South & SE most of day & it was partly cloudy, esp. in AM. Picked up our line of 30 traps on NW & W cliffs first. Caught 16 mice. There were lots more gannets & kittiwakes in evidence this morning compared to others. Next we pulled in our 23 traps around Spy Rocks. We had 8 additional mice here (& had only 3 in my 13 traps). This gave a total of 24 for day. Mike & I weighed them all before moving office back. Then Mike picked out 17 of the mice to add to the 8 he is taking back to London clinic. This left 7 mice which we processed in the usual way, 3 before lunch & 4 after. I devised a 5-point index for the abdominal fat data & recorded index values for each mouse on our data sheets.

About 1515 started off on banding & photographing walk. Went around "The Neck" & part way up W. side

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Sept 17 cont.

of Island before returning to compound about 1620 for tea. Started a new roll of 36 exposure Fujichrome film this morning, & took about 20 shots. Some birds seen:

Gold-crest - 1	Gulls - all 4 sp, & esp. dot of K. Hiwks
Pied Flycatcher - sev.	Gannet
Starling - fly. flocks	Oystr-catcher - 15±
Wheatear - 1	Dunlin - 6±
Stock Dove - 3+	Jack-daw - 10±
Whinchat - sev.	Skylark - sev.
Snipe - 1	Wagtail - White - 5±
Robin - sev.	Willow-chaff - 2
Rock Pipit - few	C. Crow - 10±
Swallow - 15±	Cormorant - 1 immat (white belly)
Rock Pipit - about.	

About 1545 I began to feel sick w/ some intestinal disorder. So rested until 1830. After dinner walked around outside - to N. fjord & then S harbor, but didn't see anything new.

So far have seen or thinked about 3 all black rabbits & 1 long-furred Arctic fox. John collected 4 Arguis ("sea worm") under a board in the compound, & later he & Dennis found 2 hearts. We also spent some time today picking up traps & later equipment.

Sept 18

Had to get up once during the night, but my morning I was feeling nearly recovered. After breakfast we packed up & I started for the first time on the Island. Then

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Sept. 18 cont.

I went for a long walk to the S. end of the Island while we were waiting for Terry Davies to arrive to take me off. I also took quite a few photos. It was a little windy & a bit hazy, especially early in the morning, but still sunny & were optimistic that Terry would come. Some birds seen:

Stock Dove - 2	K: Hiloke - 300+
Carrion Crow - 6±	Gannet - few
Jack - daw - 2	Skylark - sev.
Meadow - catcher - 2	Wheatear - 2
Pied Flycatcher - 1	Spotted Flycatcher - 1
Wren - 1, Swallow - sev.	Whitethroat - 1
Raven - 1	Chough - 2 (this pair had

been around all week, but this was the first time I saw them; I got excellent views on 3 occasions; watched them forage from rock out crop to out crop, probing the crevices with their long, curved, red bills; they must be specialized feeders)

Got back to compound for coffee at 11:00. Barry showed us a downy young Storm Petrel which he took from an nest in a nearby rock wall. Terry finally came at about 11:40. The tide was low but he came into South Haven. We finished M about 1150, & after a much more pleasant journey back arrived at Marr: nsharven at 1245. On route saw few more Gannets & along shore:

2 Sandwich Terns, 1 Chough, 1 Buzzard, 1 Raven.

At 1300, we headed for the Lobster Pot in Marloes for lunch. John Morgan left us & some relatives were at the Haven to meet him.

There was one amateur bird-watcher on the island with

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Sept. 18 cont.

us during this first week. He was David Bubear, superintendent of a water works (Prewley Water Works, Sourton, near Okehampton, DEVON, EX20 4HP). Dennis' address is:

Prof. D. Bellamy, Dept. of Zoology, Univ. College, Cathays Park, Cardiff.

At 1400 we headed for London, stopping briefly in Haverfordwest for petrol + a few presents for the kids. At Carmarthen we turned SE toward Swansea, following the A48 through Cardiff to Newport. Here we got on the M4 which we followed to its end just N of Chippenham (Wiltshire). Along a country road near Chippenham we stopped in a field for a brief snack; it was about 1900. Enroute saw some Buzzards, Jackdaws, Magpies, etc. Continued on A4 into London, arriving at Helen's place in Hounslow. We stopped briefly for coffee + chat with her husband John. Then Mike drove us home to N. Finchley, arriving about 2215.

Skomer Island Trip

8 Oct. to 11 Oct.

Oct. 8

Left N. Finchley 0615 with Peter Jewel (Zool. Dept., Univ. Coll.) + drove west on the M40 to Pembrokeshire in Wales. It was quite foggy early in the morning, but we arrived in Gloucester in time for the morning rush hour. Had lunch near Burlch, Wales. From Haverfordwest went on directly to Marloes + Martinshaven where we arrived about 1430. On way saw Collared Dove, Goldfinch, + Buzzards, etc. Leaving Martinshaven we met Peter's

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Oct. 8 cont.

student Tim Healing & his friend Moizza J. Willis. Shortly Mr. Tony Davies, the boatman arrived & we loaded our gear on his boat, necessitating 4 trips in his dingy. Arrived on Skomer ~1615, & after getting our gear carried up the cliffs to the warden's house, we set out for the prospective Skomer vole study area to set traps. The study area is to be just N of the old farm buildings which are in the center of the island. The voles apparently prefer areas of bracken fern with extensive litter under it & good drainage. We set out a small temporary grid just W of the study area of 4 rows & 3 columns (12 stakes) at 20 yd. intervals. Then we set 4 longworth traps (crushed oats bait) at each stake – about 1 to 2 yds. radius from stake. This was in an area of good bracken cover.

After dinner we chatted with the warden & his wife, Peter & Jane Corkhill, who were packing up to leave tomorrow for the winter. They will be going to the Camargue Nov. 1 for a temporary job, & then returning to Skomer in early March, 1972. Weather was mostly clear & mild.

Oct. 9

After breakfast we picked up all our traps, marking & releasing the mice. Catch: Clethrionomys glareolus skomerensis -27

Apodemus sylvaticus -4

The voles are abundant, probably at least 200/acre,

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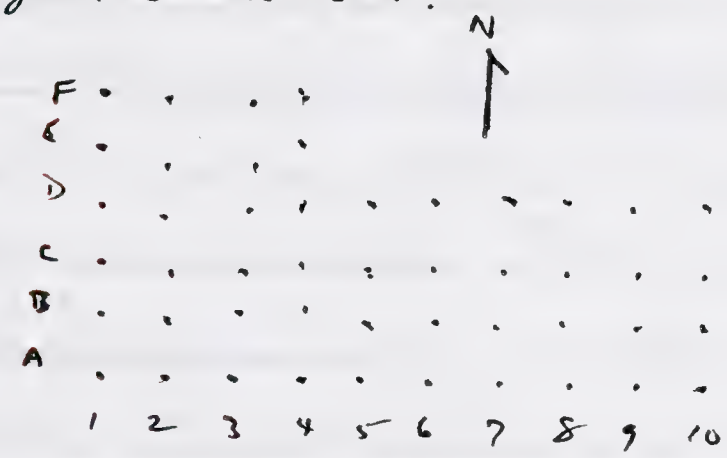
Oct. 9 cont.

& just finishing their breeding season. They are very docile & a pleasure to work with. The Apodemus are "wilder" & faster, but still not inclined to bite very much. Then we began putting out a study grid in good broken cover.



interval = 20 yds.

We finished all except line 10 by mid afternoon. Then we set out 128 traps on lines 1, 3, & 5, setting 8 traps around each stake. After setting we took a walk to The Wick on the south side of the island & then circled back along the coast (S & E) to the house. Grey seals are common around Stone & frequently can be heard calling. In the South Haven we saw 4 seal pups in various places along the rocky shores. There are numerous small caves around the shores of the island which the seals use for pupping also.

There was a noticeably heavy rain storm in the middle of the day, but later it cleared up, & it was a beautifully clear night.

Oct. 10

It took us until 12 00 to finish running the traps. Catch: voles - 67

Apodemus - 11

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Oct. 10 cont.

+ Com. Shrews - 3 (8 traps were non-functional)

One young vole + 1 shrew were dead in the traps. Everything else was marked + released, except the 2 shrews which were only weighed + released. Then we fished a large lot of blackberries from around the farm buildings + returned for lunch. In the afternoon we completed the grid by adding the #10 line + then walked around the west end of the island. First we headed N to the coast from the farm + then around the coast to the West + back to the study grid. We then set the 128 traps on lines 2, 4, + 6, with 8 per stake as before.

In our wanderings we found 6 raptor pellets which I later examined: 1). - 2 voles (1 was 8° by pelvis stage)

2). 1 vole, but 2 tails 1 of which is possibly Sorex

3, 4, + 5) all feathers, no bone

6) feathers + ~ 1/3 pellet

In the early afternoon I also made flat skins of the dead vole + shrew (we had no equipment for proper skins). It was quite windy today + partially overcast; the wind was from the west. At night only a few stars could be seen. There are 4 more goats left on the island by the warden.

Oct. 11

Bob started earlier on the grid this AM, but got only 2/3 through line 4 before Peter + I had to return to the house to pack up for leaving. Tim + Moyja

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1971

Oct. 11 cont.

continued working the grid. The catch was even lighter than yesterday. It was raining lightly for most of the morning. Terry Davis came at 11:00 as planned. It was quite rough & windy, but otherwise we had a very ~~pleasant~~ boat trip back.

Peter & I drove back to London via the A-4 (& M-4) which took us through S. Wales & over the Severn Bridge. We stopped for lunch in a pub in Whitland, & again for a snack just over the Severn Bridge (Bloodstone Club). We had dinner in Reading. It rained almost the whole trip back. The only birds noted were ~~Hooded Crow~~ ROOK, Carrion Crow, Jackdaw, & Black-headed Gull (at Martinshaven). We arrived in N. Finchley ~ 2140.

During the morning's trap check another dead shear was found. It had been dead too long to skin so it pickled it in formalin (WZL #3265).

Birds seen on Skomer Island during the 4 day period:

Manx Shearwater - numerous dead prior all over island; only 1 seen alive & it had a bad case of puffinosis

Gannet - 15±

Shag - 1

Mallard - sev. hundred on island & also flocks seen to land in ocean on N side of island

some green-sighted bird seen at distance on pool-water bird.

small number of another duck also seen - prob. pintail

Buzzard - ~ 6 on island

Peregrine - 1

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Stonar birds cont.

Kestrel - ser. flies on island; 1 ♂ presumably
seemed to be hunting for voles.

Oystercatcher - 6±

Turnstone - 50±

Curlew - 1 (near Martin's haven)

G♦ Blk-headed Gull - 75±

Herring Gull - abundant

Blk.-headed Gull - 10±

Wood pigeon - 15±

unident. owl (light colored) - 1 (possibly Barn Owl)

Skylark - 2+

Swallow - 15±

Rock Pipit - 30±

Starling - 20±

Magpie - 2

Chough - 4 (on W edge of island)

Jackdaw - 20±

Carrion Crow - 25±

Raven - 2+

Wren - com.

Goldcrest - 4+ (heard only)

Stonechat - 1

Reed Bunting - 10+

Dunnock - 1

Wheatear - 1

Robin - 10±

Trip to France Oct. 22-31

22 Oct.

Left London about 1830 & drove to Dover where
we found hotel for the night.

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23 Oct.

Took Hovercraft at 1000 to Boulogne, driving to Fontainbleau that night, by passing Paris to east & going through Senlis, Meaux, & Melun. About at Beauvais, the car started to misbehave, acting though there was a clog in the carburetor - causing trouble at speeds below 50 mph. Stayed that night in the Hotel Napoleon.

24 Oct.

Cut over to the Autoroute & continued South. At 13 mi. N Mâcon we stopped for a break & noticed a microtus outbreak along the road. We even found a dead ad. ♂ lying in a runway. It was too rotten to save but took the skull. Several photos taken of area. Turned off Autoroute at Bollene turnoff. At Bagnols took the road to Alès & from there S. toward Montpellier, but turning W. again to Quissac. Then S on D45 about 12 km. to turn off to Claret. Claret is about a km. from the jct. Proceeding through town we turned S. on the road marked to Mas Blanc & in another 2 km. came to Dolgue, the old town where Larry & Anne Ellison live. We arrived about 2030.

25 Oct.

Took car to mechanic in Claret who easily cleaned out a valve in the carburetor causing all our troubles. Went shopping & to bank in Quissac, rested, & explored around Dolgue.

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26 Oct.

Drove into mountains to NW of Claret. From Claret went W & N on the ridge to Pompignan, then to St. Hippolyte, Ganges, & Le Vigan. Went N toward Lesperon but turned off on side roads & went up to about 3700 ft. Zonation of vegetation with altitude quite marked. Just above Le Vigan is band of almost pure chestnut. Then there is a mixed pine & hardwood forest with tamarack at upper edges, followed by beech forest, & finally this becomes mixed with fir & spruce, few birches, Corylus, etc. Almost all of the dominant genera of forests in NE. N. America were evident. The mountains were curiously almost devoid of bird life.

27 Oct.

Larry & I drove to the Camargue region & completely encircled it. We approached from Sommieres, Lunel to Stes. Maries de la Mer, crossed the dike to the east, continuing about 5 mi. to the SE, returning up the east side, across the top, & back almost to Stes. Maries before returning to Claret. In spite of the miles & miles of marshes & mudflats, the most impressive thing was how devoid the area was of bird life.

28 Oct.

Larry shot a Sciurus vulgaris near Dolgun which he later skinned & salted & I brought back to London. Also took some photos of erosion caused by logging

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Oct. 28 cont.

around Dolgue. Drove to Nîmes, then to Uzes, & Avignon. Stopped for dinner in Remoulins on our way back to Dolgue.

Oct. 29

Left Dolgue for Marseilles via Nîmes & Arles. Arrived in Marseille at dusk and eventually found hotel room. Rain in morning.

Oct. 30

Drove N to southern suburbs of Paris. Stayed at Hotel Albora in Thiais.

Oct. 31

Drove into Paris & around it on circular route to east, then on to Beauvais & Boulogne. Took Hovercraft at 1530 to Dover & continued on to London, arriving about 2000. Mileage covered for entire trip - about 2100 miles.

Birds seen on trip:

Little Egret - com. in Camargue

Grey Heron - 30± Camargue

Flamingo - 2 flocks seen in Camargue (W. side);
1 ♀ 140± & 1 ♂ 16

unident. ducks - several thousand seen in Camargue but most were too far out to identify.

Mallard - 300± - Camargue

Shoveller - 1 pr. "

Shelduck - 15± "

Buzzard - 8± in Camargue (all very dark) &

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France bird list cont.

scattered individuals throughout trip.

Osprey - 1 Camargue

Marsh Harrier - 10± (incl. at least 1 ♂) - Camargue

Kestrel - 2 Camargue & many other seen throughout trip.

Coot - 250± Camargue (not generally distributed, but restricted to N. reaches of Camargue)

Lapwing - common in NW France

Ringed Plover - 40± Camargue

Redshank - 5 Camargue

Dunlin - 1+ "

Calidris sp. - Little or Temminck's Stint (prob. Little as seemed to have dark legs) - 60±

Gt. Blk. bk. Gull - 1 Camargue

Lesser Blk. bk. Gull - 10± (mantles quite pale) - Camarg.

Herring Gull - 40+ Camargue + some in Eng. Channel

Blk.-headed Gull - 2000+ in Camargue; also seen throughout trip.

Rock Dove - +

Wood Pigeon - 1 Camargue

Owls - 1 unident. seen after dark in Camargue - probably Tawny

1 prob. Little Owl at Dolgue (Oct. 28)

Hoopoe - 1 at Dolgue + 1 nic. Montelimar (Oct. 24)

Crested Lark - 4 (Camargue)

Tree Pipit - 20± (")

White Wagtail - 1 Camargue + sev. others

Starling - seen freq.

Magpie - seen commonly incl. Camargue

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France bird list cont.

Jackdaw - 15± in Camargue - also lg. flock in Arles & elsewhere
Carrion Crow - 100± Camargue, com. throughout trip
Wren - 2 (very reddish) in Camargue
Goldcrest - ? not seen, but possibly heard in mountains.
Saxicola sp. ? - 1 in Camargue
Robin - com. around Dolgun
Blackbird - ser. around Dolgun & elsewhere in France
Song Thrush - not seen but Larry showed me a specimen he had shot several days before we arrived
Blue Tit - com around Dolgun
Great Tit - " " "
House Sp. - + (mid. at least 1 in Camargue)
Tree Sp. - 1+ Camargue
Chaffinch - com. around Dolgun
Reed Bunting - 25± Camargue

Mammals recorded on trip:

Camargue: abund rodent sign on sand dunes; also weasel-sized tracks; in a vegetated area between dunes saw large runways possibly of Arvicola containing green cuttings & 1 Lepus europaeus. One dead Rattus rattus (⅔ grown) found on Camargue dike. Lots of black bulls & horses (feral?) seen also.
Hedgehog - 1 DOR
shrew - 1 seen running across road at night; size of Blarina (seen Oct. 28 when returning from Avignon).
Sciurus vulgaris - 1 (seen Oct. 28) - The main comment to make regarding squirrels is how rare they seemed

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mammal list (France) cont.

to be - even in seemingly excellent habitat & including the chestnut zone in the mountains which was just loaded with ripe chestnuts; also a search of stumps, etc. higher in mts. revealed no squirrel sign.

Oryctolagus - several seen, but nowhere common in spite of extensive night driving.

Microtus - (see Oct. 24).

bats - Larry reported that I frequently come into their house at night if a window was left open.

Oxford, Oxfordshire, England

4-6 Jan., 1972 (British Ecological Society meeting)

Birds seen in town & vicinity & on brief visit to entrance of Wytham Wood.

Gt. Crested Grebe - 2	Gt B.B. Gull - ~6
Tufted Duck	Les. B.B. Gull - ~10
Mallard	Herring Gull - 25±
Mute Swan	~~Lesser~~ Blk. headed Gull - many
Moorhen	Wood Pigeon
Coot	Starling
Carrion Crow	Rook
Magpie	Jackdaw
House Sparrow	(Missel?) Thrush - 2
Dunnock	Blackbird
Robin	Blue-tit
Wren	Bullfinch
Siskin-like Finch	

Lidicker, W. Z.

1972-1973

catalogue

3269-3304

Journal

Europe

Carribean

California

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near Ollabarry, North Mainland, Shetland, U.K.

March 12

3269.	♀	Mus musculus	25.6 g	7 ends × 7 mm. 183-76-21(19.5)-14	
3270.	♂	" "	25.4 g.	testis 8 mm. 191-87-22(21)-15	

N. end Egilsay Island Orkney Islands, U.K.

March 16

3271.	♂	Mus musculus	26.5 g	test. desc. 8×4½ mm; at. visible 171-69-20(19)-13	
3272.	♀	" "	25.1 g	no ends, 0 scars 179-82-19.5(18.5)-	13
3273	♂	" "	25.1 g	test. desc., 8×4½, at. visible 166-68-19(18)-13	
3274.	♀	" "	18.8 g	no ends, 0 scars 175-78-18.5(17.5)-	13.5
3275.	♂	" " at. visible	21.8 g	tests desc. 7½×4½ mm. 182-82-19.5(18.5)-	12.5
3276.	♂	" "	21.2 g.	tests desc. 7×4½, at. visible 175-78-19(18)-12.5	

Hastings Natural History Reservation, 1700 ft. Carmel Valley, Monterey Co., Calif.

17 Nov, 1971

3277.	♀	Peromyscus truei	22.0 g.	no ends, lact. 182-83-23-21	coll. by J.L. Patton

2200 ft.

10 Nov. 1972

3278	♀	Peromyscus truei	12.7 g	SKULL ONLY 153-71-21.5-21	
3279	♂	" "	23.6 g	SKULL ONLY 200-104-23-21.5	
3280.	♀	" "	26.8 g.	SKULL ONLY 192-90-22.5-23.5	
3281	♂	" "	22.2 g	SKULL ONLY 196-99-23-25	
3282.	♂	" "	26.1 g.	SKULL ONLY 206-103-24.5-23	
3283.		Geomys	found dead		

12 Nov.

3284	♀	Peromyscus truei	13.2 g.	SKULL ONLY 153-75-22-21.5	
3285.	♂	" "	16.5 g.	SKULL ONLY 167-82-23.5-19	
3286.	♂	" "	25.4 g	SKULL ONLY 197-102-23.5-22.5	

LIDICKER
1972, 1973
+
1974

Hastings Natural History Reservation, 1700 ft., Monterey Co., Calif.

12 Nov. 1972

3287. ♀ Peromyscus maniculatus — head only preserved, 2 tmbs x 15 mm. — 21.3 g — 167 - 71 - 20 - 17 — tst. 12 x 7 mm.

3288. ♂ Scapanus latimanus — 83.2 g — 175 - 30 - 22 - — tests 9 x 4½ mm.

3289. ♂ Peromyscus maniculatus — head only preserved — 17.5 g — 167 - 72 - 20 - 14

11 mi. SE Carmel Valley Village, 1600 ft., Monterey Co., Calif.

12 Nov.

3290. Taricha torosa (picked up crossing road)

Brooks Island, Contra Costa Co., California

29 April, 1974 (coll. by F. C. McCollum)

(prep. 29 Aug., 1974)

3291. ♀ Microtus californicus — FCM 3046 — 54.5 g — 6 tmbs x 17 mm. CL: 6R, 4L — 193 - 54 - 22 - 15 — testes 8 x 6 mm.

3292. ♂ " " — FCM 3042 — 45.1 g — 182 - 49 - 21.5 - 14.5 — 4 tmbs x 20 mm. CL: 5R, 3L

3293. ♀ " " — FCM 3038 — 53.8 g — 181 - 47 - 20.5 - 14 — no emb., parous; ovs. w/CL.

3294. ♀ " " — FCM 3049 — 43.5 g — 187 - 51 - 21 - 15

3295. ♀ " " — FCM 3039 — 36.2 g — 173 - 50 - 20 - 13

3296. ♀ " " — FCM 3037 — 42.8 g — 174 - 46 - 20 - 14

3297. ♀ " " — FCM 3050 — 38.8 g — 172 - 46 - 20 - 15

3298. ♀ " " — FCM 3047 — 43.0 g — 175 - 46 - 21 - 13

3299. ♂ " " — FCM 3041 — 45.1 g — 183 - 50 - 21.5 - 13.5

3300. ♂ " " — FCM 3051 — 44.1 g — 182 - 49 - 21 - 14

3301. ♂ " " — FCM 3036 — 48.0 g — 182 - 44 - 21.5 - 15

11 Dec. 1973 (coll. by F. C. McCollum)

(prep. 24 Sept. 1974)

3302. ♂ Microtus californicus — FCM 3008 — 36.5 g — tests 5.5 x 4 mm.; st. not visib. — 175 - 48 - 22 - 14

3303. ♀ " " — FCM 3009 — 36.5 g — tests 3.5 x 2.5; st. not visib. — 177 - 52 - 22 - 14.5

3304. ♂ " " — FCM 3022 — 37.1 g — tests 5 x 3; st. not visib. — 166 - 44 - 21 - 15

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Shetland – Orkney Trip

March 9 – 18, 1972

March 9 – Left Kings Cross Sta. – London on the overnight sleeper to Aberdeen at 2215.

March 10

Ar. at 0905. met by George Dunnet of the Univ. of Aberdeen & Director of Culterty Field Sta. & Vivian Meadenhall. Looked around Univ. & town with Vivian until 1245. Took several photos including one of a bridge built in early 14th century. Had lunch with Dunnet & Prof. V.C. Wynne-Edwards & VM. Then we drove (Dunnet, VM, & myself) to Newburgh where Culterty Sta. is. They showed me the YTHAN (pron. Ethan) Estuary where many of their seabird projects are centered. It was very impressive. Saw large no. of Eiders which breed there & will be the subject of Vivian's PhD thesis. Also saw hundreds of Oyster-catchers,

Red-shanks, com.	Mute Swans – 12+
Golden-eye	Whooper Swans – 5±
Eur. Widgeon (30±)	Shag – sev.
Mallards – sev. pair.	Shelduck – 10±
Red. br. Merganser – 10±	Turnstone – sev.

at Culterty: Shoveller, Pintail, Mallard, Pochard + sev. species of tame geese

vicinity: Kestrel – 1	Carrion Crow – sev.	Lapwing – 1
Rook – abund.	Starling	
Magpie – 1	Blackbird	
	House Sparrow	

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March 10 cont.

Gt. B.B. Gull - freq. Wood Pigeons - 10±
Herring Gull - abund.
Blk. headed Gull - freq.

Talked & visited at Station all afternoon & so went to Udney Hotel from 5 to 6. Had dinner with VM & Ellen. Stayed at Ythan Hotel.

Talked to Philip Moors - Australian working on weasels
Christine Lenze - German working on Arvicola (Hans stud.)

March 11

VM took me to Aberdeen airport where I took the 1055 flight to Shetland arriving about 1145. Helen Murphy of Animal Genetics met the plane & we drove to Lerwick where I checked into the Queens Hotel. We had lunch, & headed N to some crofts near Ollabarry on the N. mainland. We sifted 4 "skrews" (stacks of hay with grain attached) with the help of farmers. There were in Gluss (SW of Ollabarry) & I was farther N. near Oxensetter. We caught the mice as they ran out of the skrews & got a total of 66; we missed very few. When the stacks were completely removed we poured water down the mouse holes & caught some in this way. It was extremely windy & quite cold. After dinner we went to local school where we had lab set up for processing mice. Earlier we have picked up a can of live mice sent by boat from Whalsay Island (caught on March 10). We worked until about 2300 processing mice. There

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March 11 cont.

were 2 from Whalsay, the rest being 3 Apodemus. Then we did 60 from Oldburg. Two mice were dead, leaving 4 live ones which gave food & water & kept overnight together with the Apodemus. Then we drove to Scalloway on the West Coast where we went to the home of David Robertson (local artificial insemination officer). We put samples in Stein freezer & visited with them until about 0045.

March 12

Didn't get back to Lerwick until about 0100. At 1000 went back to school. For 2 ♀♀ Apodemus we took blood samples & preserved the heads for H. Grünsberg. The 3rd one, a ♂, I made into a museum skin (WZL #3268). Then I skinned a ♂ & ♀ of the remaining mus (#3269, 3270). Four mice were thus thrown away (2 dead yesterday & 2 of the 4 kept overnight):

♀ juv. 14.2 g. } dead
♂ 28.6 g.

♂ 17.7 g. } killed
♂ 19.8 g.

After lunch we drove to Scalloway & then onto Tonsta Island & West Burra. We passed near a house called Sandwick, walked to W coast, S to Banna Minn (a large bay) & then back N along the east coast of West Burra. It was windy & mostly overcast although the sun peeked through occasionally. Then we returned to

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March 12 cont.

Lerwick in time for dinner. Helen went back to the hotel to pack gear, & I wrote a few notes. Then we went to the home of the local priest - O'Riordan for a social visit. Also there were Mr & Mrs. Prins of Bath. Mr. Prins lectures widely on art & had come to Lerwick at the invitation of the local Arts Council & lectured Sat. evening. We got back to hotel about ~~1130~~ 2330.

March 13

Checked out of hotel; went to school to pick up gear & specimens. Then went to Scalloway to get material out of freezer. Mrs. Robertson (Marlene) treated us to coffee. Returned to Lerwick for brief bit of shopping; checked in rented car, & got coach to airport at Sumburgh (at 1205). Plane to Orkney left at 1355. It was a beautiful sunny day. By 1530 we were checked into the Kirkwall Hotel in Kirkwall.

Bird list for Shetland:

Fulmar - 100± - some sitting on nest sites but no eggs yet.

Shag - common

1 immat. swan - probably Whooper

Eider - 120±

Long-tailed Duck (old-squaw) - 3 (2 ♂, 1 ♀)

Golden-eye - com.

Red br. Merganser - 20±

Coot - 1

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Shetland - bird list cont.

Oyster-catcher - common.
Ringed Plover - 2
Lapwing - 25±
Turnstone - 35±
Purple Sandpiper - 7
Red shank - com.
Curlew - 1
Blk-headed Gull - com.
Herring Gull - abund.
Gt Black-backed Gull - com.
Common Gull - freq.
Kittiwake - sev. hundred seen along cliffs of W. Burra; starting to occupy nesting territories.
Blk. Guillemot - 1
Rock Dove - 30± (incl. along cliffs of W. Burra)
Rock Pipit - 3
Blackbird - freq.
also some other thrush seen sev. times - possibly Fieldfare
Twite - ~5
House Sparrow - com.
Starling - abund
Jackdaw - ~5?
Rook - 10±
Hooded Crow - com.
Raven - 25±

Met Sam Berry on way to "tea". Afterwards drove to Nisthouse, Hoxay (N. pt. of Mainland) ~~to~~ which is

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March 13 cont.

Lone C. Albert & Sheila Spence – both veterinarians, & Sheila is also local contact for Mammal Society. We used their lab for processing mice & deep freeze for our samples. We processed 37 that Sam had caught on Saturday at Shapinsay Island, & another 39 which he caught today on south Hoy Island. Then we visited with Spence's until about 12:30 & it was about 0100 before we got back to the hotel.

March 14

Went to car hire place to transfer car to Helen & my names. Then to Spence's – Harry for centrifuging blood & picking up frozen material. Sam & I drove back to Kirkwall via Tingwall on the N. coast. He leaves for London in the afternoon. I drove back to the hotel to pick up Helen, after buying some lunch. We headed for Tingwall to catch a boat for Egilsay Island at 11:30. Boat was Mr. Maisie Furth. Arr. on Egilsay about 1300 after stopping on way at Rousay & Wyre. A man with a Landrover (Mr. Craggit) picked us up at the pier & took us to a farm on the N. end belonging to Mr. Mainland – where they were threshing stacks of oats ("black oats") & baling the straw. We worked with them until about 1600 & caught 19 Mus – all have white bellies & very silky fur. We also killed 3 Rattus norvegicus which ran out of the stacks. The Mainland's invited us for "tea" & about 1640 drove us

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March 14 cont.

back to the pier where Mansie was just coming in. There are no voles on Egilsay according to our hosts, but there are shrews (as judged by their description). It was about 1830 before we got back to Kirkwall. After "high tea" at the hotel we went to Spence's & procured our mice. Actually got to bed by 2330.

March 15

Took Helen to airport where she took Loganair flight to N. Ronaldsay. I returned about 1 mi. toward Kirkwall & stopped to look at the study area of Mr. Fred Rose, Biology teacher in Kirkwall, but lives in Deerness. He is studying Orkney voles, Microtus arvalis. There is a high density judging by sign on the banks of a small artificial pond & in the general vicinity - which is his study area. I heard a few voles, but didn't see any. Then I drove to Deerness which is a peninsula on the SE end of the mainland connected by a bar of sand dunes to the mainland. I drove around looking for farmers who were moving "corn" so I could catch mice. Saw 3 Lepus europaeus on the way (on the mainland). It was raining slightly, but cleared up later & most of the day was beautiful. Caught about 17 mice in the morning in going through parts of stacks. Then drove to Burray, stopping along the way to eat my lunch. Looked around most of Burray but could find no one picking up grain stacks. Returned to

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March 15 cont.

Deerness about 1440 as I farmer told me in the AM that he would be picking up another stack about then. Caught 18 more mice giving a total of 35 in spite of having to compete with 4 cats for the mice. In the first stack of the morning I lost a few mice due to a dog. Returned to airport just 10 min. too late to meet Helen returning from North Ronaldsay, so returned to hotel in Kirkwall. A few Rattus norvegicus were also seen in some of the grain stacks on Deerness which incidentally were oats (white). After "high tea" we went to Harvey to process mice. We didn't get back to Kirkwall until shortly after midnight. Helen had caught over 60 mice from N. Ronaldsay which we didn't completely process, some being left for the next day (~15).

March 16

About 0900 went to school in Kirkwall to find Mr. Fred Rose. Borrowed 3 Longworth traps from him to try to catch some voles. Drove to Spurcis in Harvey. I processed 6 more mice from N. Ronaldsay while Helen did blood samples from yesterday. I also set the 3 vole traps out along the wood near the house — not very good spots. Then we went to Tingwall again arriving 1130 & caught boat to Egilsay. This time we stopped only at Rousay on route. It was a beautiful sunny morning, but shortly after noon the fog came in thick & it got cold.

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March 16 cont.

We were met on Egilsay by Mrs. Ronnie Moar & taken to their farm where they were going to thresh several stacks of oats. This was basically the same group as we worked with on the 14th as the 2 families cooperate in the threshing operation. This time we caught 91 mice which added to the 19 from before gave a total of 110 from this island, plus of course numerous nestlings which were not counted or processed. As before, all had white bellies. One of the 3 stacks we went through contained some nestling rats, & 1 pair of adults which escaped to a neighboring stack ("Scrow"). Left island ~ 1610 & made our way through quite heavy fog back to Tingwall getting on the Mainland. Returned to Kirkwall & later to Spence's for processing. We finished the N. Ronaldsay mice & did 41 (+19 from 14th = 60) of those from Egilsay. & had nothing in my 3 traps, so moved them (after dark) further down the road to a grassy area surrounding a small loch. Found a shrew & Owl pellet, but it contained no bones. Got back to hotel about 0035. Only a small amount of vole sign was seen around the lake.

March 17

We had tried to get on a Loganair flight to Eday for several days now for this day, but it was booked up. We then arranged to hire a boat to take us (Mr. Nicolson from Shapinsay). He left without us at about 0900 from Kirkwall Harbour, probably because he didn't want to go to Eday in the dense fog which was persisting.

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March 17 cont.

So, we went to the airport to try again to get on the flight, but failed. We decided then to try our luck on South Ronaldsay. We drove there & cruised all the roads on all parts of the island looking for farmers moving grain. As it was still very foggy, & quite windy as well, everyone seemed to be spreading manure, plowing, or staying indoors. It was not until 1415 when the sun finally broke through that we succeeded in locating someone. Within ½ an hour we had caught 58 mice plus the usual nestlings. Also one R. norvegicus escaped & 4 or 5 large nestlings were found. We also saw two Oryctologus during our driving around the island, both with bad cases of myxomatosis. The farmer at this stack told us that S. Ronaldsay also had "blue rats" - which they admitted were black (probably R. rattus). Incidentally, on Deerness, I talked to a farmer bringing in a wagon load of turnips ("neeps") almost all of which were hollowed out, & he said it was rabbits that had done it.

Then we drove to Burray, the small island to the north of S. Ronaldsay, & continued our search. We finally found a farmer pitching a stack of barley on to a wagon. We got there only a few minutes before he quit but managed to catch 4 mice. He said that rats were present on Burray but not common. We continued to search Burray until 1550 when we had covered it all. Returned to Kirkwall for early "Light tea" & then on to Hoy. I checked my 3 Longworth traps.

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March 17 cont.

Caught nothing, & moved them to new & better locations nearby. Killed remaining mice from Egilsay. Froze all the adults for skeletons & skinning later (♂♂ & ♀♀).

Thrown away: 1 ad. ♀ (had died in carrying can)
8 juv. ♂♂
13 " ♀♀
} 22

Also 1 ad. ♂ & 1 ad ♀ were given to Sheila Spence.

Then we processed 55 of the South Ronaldsay mice & the 4 from Burray. Three dead mice from S. Ronaldsay were thrown away: 1 ♂ & 2 ♀ (1 of the latter had a white band on her tail). We visited for several hours with the Spence's & didn't get to bed until after 2 AM.

March 18

Went to Spence's to take care of yesterday's blood samples & to pack our gear. I picked up my 3 traps – again caught nothing. We left Spences about 1130 (Albert & Sheila Spence, Nisthouse, Harray, Orkney). Took our samples to freezer in hotel & then drove to Kearness to return traps to Mr. Fred Rose (& to visit with him & wife). They are from the Glasgow area, & have been in Orkney about 5 years; they also spent many years in Nigeria. Address: Schoolhouse, Kearness, Orkney. Arrived there at 1245 & left ~ 1335. Returned to hotel & checked out & then went to airport arriving about 1430. We were very uncertain whether we would get off or not because of the heavy fog. No BEA planes had gotten in for several days, & none had been to Shetland for 4 days. We

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18 March cont.

waited at the airport until 1715. Luckily two planes arrived, the first left for Glasgow, + the second, which we got on, for Aberdeen. The airport at Aberdeen had also been closed for several days + was open only briefly today. Our plane just got in (1805); the London plane was waiting. We transferred quickly + took off ~1825 ahead of schedule as the fog was getting thicker rapidly. Arrived Heathrow 2035. It was almost 2300 by the time I got home via bus + underground.

Bird list for Orkney

Fulmar - com.
Shag - com.
Cormorant - few
Herring Gull - abund.
Common Gull - abund.
Blk.-headed Gull - abund.
Gt. Blk.-backed Gull - com.
Les. Blk.-backed " - 6
Red throated Diver - 1
Blk-thr. or Northern Diver - 1
Com. Heron - sev.
Europ. Teal - 6
" Wigeon - many
Pintail - few pairs
Mallard - common
Tufted Duck - 10±
Golden-eye - com.
Long-tailed Duck - com.
Com. Scoter - 20±
Wh-winged Scoter - 5±
Common Eider - very com.
Red. br. Merganser - 20±
Smew? - 4
Mute Swan - com.
Whooper Swan - 20±
Snipe - 3
Curlew - abund.
Redshank - com.
Peregrine - 1
Kestrel - 6±
Red Grouse - 1
Moorhen - 15±
Coot - few
Oystercatcher - abund.

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Orkney bird list cont.

Lapwing - abund.
Razor-billed Auk - 2 pair
Black Guillemot - 15±
Wood Pigeon - 2+
Rock Dove - com.
Collared Turtle Dove - 2
Skylark - scar. (also seen singing)
Raven - few
Hooded Crow - com.
Rook - 20±

Jackdaw - 20±
Blackbird - com.
Wheatear - 1
Rock Pipit - scar.
Starling - abund.
Twite - few
Chaffinch - 2
Wren - 1
House Sparrow - com.
Reed Bunting - 20±

Grey seals were seen in large numbers, esp. near Wyre. Along SW shores of Rinsland, about 50 were seen on one occasion. When closed they leaped & dove like dolphins. Occasional individuals seen elsewhere.

Some birds seen in vicinity of Erling (S. of Munich), West Germany.

13 - 16 April

Black-headed Gull - com.
Herring Gull - few
Tawny Owl - 1 heard only (identified by George West)
Com. Swallow - few
Mute Swans - scar.
Mallard
Coot -
also lots of waterfowl seen at Seewisen (K. Lorenz's lab.)
+ Australian Black Swan - 6 (at Ammersee)
Wood Pigeon - few

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13-16 April cont.

Kestrel - sev.
Carrion Crow
Magpie - sev.
Com. Jay - 1
Blue tit - com.
Marsh tit - sev.
Blackbird
Redstart - sev.
White Wagtail - sev.
Chaffinch - com.
Starling
Yellowhammer - sev.

Rough-legged Hawk - 1 ?
Jack-daw
Alpine Chough - 2 in captivity at hotel.
Gt. tit - com.
Coal tit - 1
Fieldfare - 10 ±
Robin
Black-cap - 1 ?
Hawfinch - 1
Greenfinch - 10 ±
House Sparrow

SW. Holland - 19 April

Also 1 White Stork seen while crossing Holland!

Mallard
Shelduck - com.
Avocet - lots
Herring Gull - com.

Dowitcher - 3
Red-shank - 10 ±
Blk.-headed Gull - com.
Blk-tailed Godwit (with wing bas) - 1

between Bruges + Oostend, Belgium

20 April

Watched a Arvicola swim across a canal about 1100; + saw sign of others along bank. overcast.

Isle of May (Scotland) trip

April 22 -

April 22

Lv. King's Cross Sta. at 2230 on overnight "sleeper" to Edinburgh. Left on time.

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April 23

Ar. Edinburgh 0745 just in time to catch local train to Leuchars Jct. (Aberdeen line) at 0755. Ar. L. Jct. at 0918, where Mike Jacobson + Helen Murphy were waiting to pick us up. We drove directly to Crail (via St. Andrews) + to Lothar where we loaded our gear on the small fishing boat (lobsters) belonging to Mr. Jimmy Smith (Crail 484). Left for Island May 1005. It was moderately rough going over, but a pleasant trip. It took a little over 1 hour. On the Island we moved in with Graham + Della Twiggs in the small house owned by the Royal Free Hospital for Sam Berry's research on Mus. Graham is a post-graduate student of Sam's. Bird life is spectacular; see list later on. After lunch we helped Graham set 185 Longworth traps over the entire island. This was the start of a census taking 5 trapping sites. Mike set an additional 15 traps around the house. Rabbits are moderately common on the island, quite a few were seen; myxomatosis has arrived on the island + greatly reduced the rabbits from previous levels. After setting, walked around island, especially along W. cliffs where many birds are beginning to nest. Only the shags were seen to be incubating eggs. Weather: sunny with mod. winds.

April 24

Overcast early with partial clearing later; strong

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April 24 cont.

NE winds. Checked traplines, which took almost all day. Caught 10 6 mice + 5 voles which Mike caught on his line. Helen got blood samples for biochem analysis from 75 of these. At 1715, a RAF rescue helicopter landed on the island with several Coast Guard officials who were making an inspection of some kind. Only about 1/4 of the mice were unmarked ones. One gray seal seen near N end of island (+ also seen there yesterday).

April 25

Graham got up early + ran some of the traps before breakfast. Then we ran the rest finishing at 1405. Caught a total of 111. Helen got ~~about 35~~ 43 more blood samples. Weather: mostly clear with brisk westerly winds, switching to easterly late in afternoon. Quite warm in sun around mid-day. After lunch, took a shower + shaved, talked with Graham about his data, + then took a walk around southern half of island taking some photographs. Before + after dinner, all 4 of us worked on processing the 5 male mice which Mike was finished testing in his metabolic chambers, + were ∴ killed.

April 26

Warm sunny in morning turning overcast + with brisk westerly winds. Intermittent rain showers in afternoon + evening. Graham again ran some traps (S. end) before breakfast. We ran the rest following breakfast + finishing

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Bird 26 cont.

at 1430. Catch this time 107. Helen took only 19 blood samples this time. Quite a few birds have white spots, white tail tips or white bands on tail. One we caught had the left ear flopped down, & Gordon says he has seen this on a few other individuals. Also 3 other in the "graveyard" (over the past 3 nights) had salt marks on the head giving them the appearance of having distinct age rings. Jimmy Smith's boat, "The Breadwinner", came twice today — once about 1100 & once about 1600. He brought out 3 people from The Nature Conservancy who are involved in the project to reduce the number of Herring Gulls breeding on the Island.

In the afternoon, caught a Willow Warbler in the trap behind the house, & saw another. We banded, weighed & measured it. Worked on the dissections of Mike's 5 birds from 1815 to 2000. Then had dinner. Took a few photographs in the AM. on the N. end of the Island in spite of the rapidly deteriorating light conditions. (Finished 1 roll (2 shots) & started another).

At 2200 to 2320 went to Low Light (Bird Obs.) & talked to 3 who had come out to Island on the Herring Gull project. They plan to reduce the H.G. population from an estimated 18,000 pairs + to about 2000 over a 3 year period. Each of the 3 years they want to break the tradition of nesting in certain parts of the island by wiping all nesting pairs in those areas. This they expect to do by poisoning (on bread), by carefully placing

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April 26 cont.

The point is or objectant to rats, & by timing this so the rat's pair has maximum attachment to their territory - i.e. when they are incubating. When 1 bird per rat is killed, it is quickly removed, so rats will have no inhibitions about coming into incubate & can also be poisoned. The figure they will start is 2 to 3 rats & then it will take 10-12 days. They have not solved the problem of what to do with the ~~24,000~~ 10,600 carcasses they hope to have. Also they are not interested in encouraging G.B.B. Gulls to breed as the only active & successful predators against H.G. but instead want to eliminate them as well. Also they do not want to ~~discriminate against~~ distinguish the Lar. B.B. Gulls, & will kill them as well indiscriminately. The poison to be used is Alpha-chloralose, a chlorinated sugar. George Habeck (sp.?), a student of Coulson at Durham thinks there are at least 20,000 pairs of Herring Gulls on the Island.

April 27

Graham was out running traps & did not return for breakfast so I went out & found him & helped him finish the central inland part of the line. We also took time to have a cup of coffee at the lighthouse & to climb the lighthouse tower. The light is of the "fanfire" type & has a mantle just like a large lantern. At about noon Graham returned for breakfast, & I went toward the N. end of the

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April 27 cont.

Island to photograph puffins. Without much effort I managed to get within 2 m. of a small group sitting on the edge of the west cliff. Weather: alternating sunny & overcast, with frequent cold windy periods. The 7th was too rough for Jimmy Smith to come out even though Sam Berry was due to come out for the day. He sent a message to the lighthouse that he would come tomorrow instead.

Both Herring & LBB gulls seemed noticeably more attentive today - wheeling & screaming overhead & dropping back into formation more quickly. We found no more nests with eggs, but George did find a few. We found 1 H.G. which had been narcotized by the Nature Conservancy group in a trial of the poison. It was standing, wavering back & forth with its eyes closed. It did not respond until poked & then flapped & tumbled weakly, soon settling down again. We also found a K. Hiwake mired in the mud of a small fresh water pond on the top of the island. One wing was limp although bones appeared to be broken. We figured it was knocked down by an aerial collision. We released it into the landing area on the E. side. It swam off flapping its one good wing.

Before lunch we completed most of the trapline on the S end. Afterwards we completed the 22 remaining traps & then walked around about of the main trapline, bleeding & releasing some mice Graham had left in the traps for

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April 27 cont.

Helen. We also brought in 5 ♂♂ for Mike. We didn't get back until about 1800. Total catch: 125; Helen took 20 blood samples. We started right in to the autopsying, working from 1815 to 1945. Then we had dinner. Afterwards I took a shower. Graham + Della went off to the lighthouse for a weekly card game.

April 28

Weather: mostly overcast with strong SW winds increasing during day; few showers. After breakfast we started running trap grid & picking up all traps. Helen worked with Graham + I as she had already gotten more than enough blood samples. At 1130 we tried to call Jimmy Smith, the boatman, to tell him we wanted to come off the island, but got no answer. At 1230 we were about to try again when we saw his boat about ⅓ of the way across. Helen + I then left Graham on the trapline so we could return to pack for leaving. The boat came into the E. landing which was sheltered. Jimmy did not know of the forecast for gale winds of 8 intensity that afternoon, but agreed to stay until 3 pm. Sam Berry was on board along with a psychologist from St. Andrews (Lecturer – Mel Goodale sp.?). The latter was to do some behavioral testing on the May mice. There was also a photographer from the Sunday Times (Mike Ward) who wanted gull pictures + a gull parasitologist from Dundee. We had lunch at 1400 + went to the boat at 1500. It was a rough + wet trip back to Crail. Mike Ward gave Helen + I a ride to the Edinburgh airport where we caught a

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April 28 cont.

7:10 flight for London. Arrived about 2030. Ward gave me a ride to Leicester Square so he had to go to his office to develop his pictures, & I took the tube from there, arriving about 2240.

Bird lists of Isles of May:

unident. loon - 3 (not red-throated) - seen on way out to Isle.
Gannet - 2 (23rd), 3 (24th), 3+ (28th)
Fulmar - com (seen every day)
Shag - com. (many sitting on eggs)
Cormorant - sev. imm. (23rd), 1 ad. (24th), 2 (25th)
Eider - com.
Shelduck - 2+ (23rd), 2 (24th), 1 (26th), 2 (28th)
Oystercatcher - sev. every day, 6± (26th).
Turnstone - sev. hundred every day.
Redshank - 1 (23rd)
Purple Sandpiper - 1 (23rd)
Curlew - 1 (24th)
Gt. B.B. Gull - 1 (23rd), 1 fr. (24, 25, 26, 27, & 28th).
Les. B.B. Gull - com.
Herring Gull - abundant; on 27th, 1 chick of 3 found & 1 fr. seen copulating.
Common Gull - 1 (23rd. on trip out), 3 (28th on trip back).
Kittiwake - abund. (no eggs seen).
Razorbilled Auk - com.
Guillemot (= Com. Murre) - com. (sev. sev. pairs copul. on 25th; a small no. have egg-strips & 2 of them seen together possibly paired)
Puffin - 50± (23rd), 250± (24th), 2000± (25th), 1000± (26th), 500± (27th), & 500± (28th). Many with eggs.
Rock Dove (lots of dom. genes obvious) - 20± (23rd), 6± (24th),

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Isle of May bird list cont.

cliffs, 10± (28th)
2 (26th), 10± (27th) + bird found on nest on W.

Skylark ? - 1 (23rd)

Carrion Crow - 1 (23rd), 1 (24th), 1+ (25th), 1 (27th)

Wren - 1 (23rd), 1 (24th)

Wheatear - 1 ♂ (23rd), 1 ♀ (24th), 1 (25th), 1 (26th)

Fieldfare - 1+ (23rd), 1 (25th), 1 (26th)

Blackbird - 1 (24th), 2 (25th), 3+ (26th), 3+ (27th), 3+ (28th)

Robin - 1 (28th)

Goldcrest - 2 (23rd), 2 (25th)

Willow Warbler - 2 (26th) - 1 banded

Rock Pipit - several seen each day

Meadow Pipit (some pipits examined carefully were quite buffy & had distinctly pink legs; & were possibly Tree Pipits) -
5± (23rd), 10± (24th), 20± (25th), 20± (26th), 50± (27th), 20± (28th)

Wagtail, White - 1 (24th), 1 - pied type (26th), 2 (28th)

Starling - 25± (23rd), 10± (24th), 20± (25th), 10± (26, 27, + 28th)

Dunnock - 1 (24th), 1 (25th), 1+ (26th), 1+ (28th)

Linnet (or Twite) - 1 ♀ (25th).

Scotland Trip

May 27 to June 2

May 27 - Lv. N. Finchley about 1535. Took M1 + M6 to N. of Stafford where 1 of our pistons broke causing a great loss of power. Eventually we were directed to a garage just N. of Holmes Chapel (Cheshire) which even though Sat evening agreed to fix the motor if we left it about 3 days. Found place to spend night near Sandbach.

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May 28 (Sunday)

Left car at garage & rented Cortina Sta. wagon (1969) & continued N. Left M6 on A65 to Kendall & drove through Lake District: to Windermere & Bowness & then N. along Ullswater & to Penrith. Returning to M6 we continued N to Gretna Green on Scottish border.

May 29

A74 to Glasgow, along R. Clyde to Dumbarton, along Loch Lomond to Tarbet, to Lochgilphead to Oban. Found place for night at N. Connel overlooking Loch Etive

May 30

Continued N. to Fort William, & along Loch Ness to Inverness. Turned S. on A9 to Kingussie in Cairngorm Mons.

May 31

Continued S. to Edinburgh where we wandered around town, did some shopping & spent the night.

June 1

Went S. on A7 to M6 near Carlisle via Galashiels & Selkirk. Took M6 back to Holmes Chapel in Cheshire where we picked up our repaired car. Because of the new piston we could not go above 45 mph. for ~500 miles. Drove to Congleton to Leek & to Kirk Langley (just N. of Derby) on A52 where we spent the night.

June 2

A6 to Leicester & Market Harborough; then A508 to Northampton, A43 to A5 to M1 S. of Luton. M1 & M10, A405 & A6 to A1081 to Barnet & finally home, arriving about 1545.

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Bird list for trip May 27 to June 2:

unid. dark small grebe - 1

Heron - scr.
Mallard - scr.
E. Eider - 1 (Argyll)
Red b. Merganser - 1 pr. (Ullswater)
Goosander - 2 (Ullswater), 1 (Loch Lomond area)
Oystercatcher - ✓
Lapwing - ✓
Curlew - scr.
Rock Dove - ✓
Wood Pigeon - ✓
Turtle Dove? - 2
Little Owl? - 1 (Northamptonshire)
Carrion Crow - ++ (England & S. of Edinburgh)
Hooded Crow - ++ in Highlands only
Rook - ++++
Jackdaw - +++
Magpie - scr.
Blue tit - scr.
unidend. tit - 1+
White wagtail - +
Starling - ✓
House sparrow - ✓
Yellowhammer - 1+

Mute Swan - ++
Kestrel - +
Red Grouse - 1 ♂ (eastern Dumfries Co.)
Moorhen - scr.
Coot - 2
Les. B.B. Gull - ✓
Herring Gull - +++
Blk. headed Gull - +++
Com. Gull - ++ in Highlands
Skylark - scr.
Swift - ✓
Swallow - ++++
House Martin - +++
Sand Martin - ++
Mistle Thrush - ✓
Song Thrush - scr.
Blackbird - ✓
Robin - scr.
Garden Warbler - 1 (N. Cornwall)
Bullfinch - scr.
Chaffinch - ++
Goldfinch - 5±
Linnet - 3

Very few mammals seen on trip: quite a few DOR hedgehogs, few rabbits, & 1 weasel (M. nivalis) run across road in Selkirk Co. (June 1).

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Polish Trip - Selected Bird Lists

June 6 - 21, 1972

Wyspa Dzikiej Jabłoni (Wild Apple Island), Lake Bełdany, Mazurian Lake District, N.E. Poland

June 7 - 9

Gt. crested Grebe - com.
Mute Swan
Mallard - incl. ♀ w/yg. & 1 nest w/eggs
Ferruginous Duck ? - 1
Garganey Teal - 1 ♂ on nest
Pochard - few
Buzzard
Black Kite - 1
Kestrel
Tawny Owl - 2
Swift
White Wagtail
Wren
Starling
Gt. tit
Blue tit
Gt. Reed Warbler - 1+
Linnet
Chaffinch

Heron - 1
Crane - 1
White Stork - 1
Coot - incl. 1 on nest.
Com. Tern - com.
Blk. headed gull - com.
Lapwing
Wood Pigeon
Gt. Spotted Woodpecker - 1
Cuckoo - heard only
House Martin
Swallow
Hooded Crow
House Sparrow
Pied Flycatcher - 1 ♂ feeding yg.
Redstart - 1 pr.
Reed Warbler ? - 1
Goldfinch
unident. bunting (possibly Ortolan bunting - on drive up to Lodge).

Białowieża area - near border of USSR.

June 9 - 11

White Stork - many
Black Stork - 1

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Białowieża cont.

Green Sandpiper - 1 (beaver pd. marsh)
Spotted Eagle - 1
Rock. Dove
Merlin. falcon - 1
Cuckoo - heard only
Gt. Spotted Woodpecker - heard only
Swift
Coal Tit ? - 1
Gt Tit
Blue Tit
White Wagtail - com.
Red-backed Shrike - 5 ±
Blackbird - ++
Redwing - 1
Mistle Thrush - com.
Song Thrush - com.
Icterine Warbler (song pointed out)
Garden Warbler (" " ")
Goldfinch
Scarlet Grosbeak (heard song only)
Ortolan Bunting (song pointed out)
Reed Bunting - sev.
Tree Sparrow - ++

Tawny Owl - 1 prob. in captivity in forest home of PK.
Wood Pigeon
Wren
Swallow - few
Rook - 2
Jay - few
House Martin
Nuthatch
Starling
Golden Oriole - heard only
Robin - heard only
Wheatear - 1
Thrush Nightingale - sev. (more heard)
Black-cap
Chaffinch - ++
Hawfinch - 1
Yellowhammer
Corn Bunting ? - 1

(In Białowieża Forest & Caperaillie reserve but numbers are reportedly declining).

1 Ornycteloguus seen from train near Białowieża. Beaver dams are by Castor fiber.

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Kampinos Forest – west of Warszawa

12 June (w/ Dr. Wasilewski)

White Stork – 1
Crane – 1 heard
Turtle Dove – sev. heard + 1 seen
Green Sandpiper – 2
Jay – sev.
Robin – heard only
Raven – 1
Garden Warbler – heard
Black-cap.
Barred Warbler – 1 (identified Wasilewski + seen poorly; has flight song)
Yellowhammer
Tree Sparrow

Gd. Spotted Woodpecker – sev.
Les. spotted " – heard only
Wren
Gd. Tit
Meadow Pipit – 1
White Wagtail
Red-breasted Flycatcher – 1
Wood Warbler – heard only

Also saw 2 Alces + 2 Sus scrofa as well as much sign of both – esp. Sus (beds, trails, wallows, + feeding places). Also 1 Natrix natrix.

Also seen in this area, but not in forest –
1 Golden Oriole, Linnets, Sing. Sparrows, etc.

Amsterdam to Puerto Rico

15 July – sailed on freighter Ulysses (KNSM) from Amsterdam at 1730. New shore: Blk.-headed Gulls + Herring Gulls, Common Gull – 1, Com Terns – many.
Offshore – Herring Gulls only.

16 July – (off south shore of England, but not within sight of coast). Small group of Les. Blk.-headed Gulls around ship most of day.

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17 July 1030 - 1 Gannet & sev. scores of porpoises throughout the day - probably Tursiops.

18 July - no birds or mammals seen today

19 July - 2 porpoises. In afternoon when about 175 miles from N. end of Azores begin seeing Cory's Shearwaters (~7 to 10 seen); 1 had white V on rump but otherwise looked like Cory's).

20 July - passed Azores during night; rough seas & strong wind; no birds seen; 1 passenger said he saw some flying fish.

21 July - rough - rough; no birds, mammals or fish seen.

22 July - strong SW wind slowing progress. In AM ~4 to 6 tropic birds seen; some had def. yellow bills & some def. red. There must have been White-tailed Tropic bird & were at ~45°W. & 31½°N. Also saw flying fish in late PM.

23 July

Quite a few flying fish; no birds.

24 July 1 Tropic bird in AM (not seen well enough to check bill color). In afternoon a small sandpiper hung around the ship - pale brown with wing stripe, shallow wing beat reminiscent of Spotted Sandpiper; also light colored like Red Phalarope in winter plumage - probably was Spotted Sandpiper. Crossed Tropic of Cancer about noon.

25 July Lots of flying fish; a passenger reported 1 Tropic bird. Starting about 1645 saw few Sooty Terns (about 25 mi. from land) & continued seeing them

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25 July cont.

sporadically until dusk when we were in sight of St. Maarten's Island. Also got good look at all brown offering booby - prob. Brown Booby.

26 July Ashore most of day on St. Maarten's. Saw W. and a N. into French section (St. Martin's). Left 0300.

27 July Arrived in Tortola (British Virgin Islands) about 1100. Went ashore most of day touring island with Capt., his family, & other 2 passengers. Left 2100, sailing for St. Croix. Anchored offshore about 0100.

28 July. Disembarked on St. Croix where we stayed until 31 July.

31 July - Flew to San Juan, Puerto Rico, where we stayed with Paul Lichet & family at Rio Piedras.

1 Aug. Drove into mtns. to El Verde (AEC field station) & then to El Yunque.

2 Aug. Flew from San Juan to San Francisco via Miami, arriving about 1815.

Bird List for Caribbean area:

S.M = St. Maarten
T = Tortola
SC. = St. Croix
PR = Puerto Rico

Least Grebe ? - 1 (S.M.)

Pied bld. Grebe - seen (S.M)

White-tailed Tropic bird - offshore, seen above

Brown Booby - com.

Brown Pelican - com.

Magnificent Frigate bird - (S.M. esp., also T. & S.C.)

Cattle Egret - com.

Reddish Egret - 1 (S.M.)

(cont.)

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Bird List for Caribbean coast.

Great Egret (Egretta alba) - 1 (S.M.)
Com. Sandpiper - sev. (S.M. + T.)
Com. Stilt - 17 (S.M.)
Laughing Gull. com.
Roseate Tern (probably) - sev. (T)
Sooty Tern (offshore + 1 S.M.)
Brown Noddy (SM - sev. + com. offshore from T.)
Least Tern - ~~few~~ 2 (SM.)
Royal Tern - 1 (SM.)
Com. Ground Dove (T, S.C. + PR.)
Zenaida Dove (SM, S.C. + T.)
Red-necked Pigeon (prob. seen on S.C.)
Sparrow Hawk - 1 (SM), 1 (T)
unident. lg. buteo - 1 (PR) - no obvious markings
Kingbird - many on St. C. - so probably Gray Kingbird, but 1 seen well looked like Loggerhead K.
Purple Martin - few (T)
Pearly-eyed Thrasher (SM.)
Bananaquit - com. (SM., S.C., PR.)
Blk.-faced Grassquit - (SM) - com.
Yel-faced " - few (PR)
Greater Antillean Grackle - 1 (PR.)

St Maarten Anolis (July 26) - com. on dark rocks & cliffs overlooking the sea (thorn scrub vegetation). Two dark lines along side, brown color, yellow on belly & chin, pinkish orange dewlap, longish legs; quite tame. One seen in town appeared somewhat paler.

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Kensington, Calif. (108 Willow Lane)

January 6 At hummingbird feeder in backyard put up shortly before Christmas (1972):
1100, clear weather, 38°F – Chickadee observed using the feeder. Landed on spout & took several drinks from bubble at tip.

Jan. 21
Chickadee using hummingbird feeder – 1700, 44°F., clear weather. Landed on spout & reached around to bubble. Threatened to within 1 foot by ♂ Anna Hummer, and after hesitating a moment it left.

Jan. 27
1630, 44°F. Chickadee came to feeder & drank. Chased off by ♂ Anna Hummer; returned & drank again; flew over ♂ Anna which was sitting nearby. A second chickadee went by without going to feeder. A third went to feeder & drank several times. The ♂ Anna was sitting about 3 ft. away. This last chickadee also flew off over head of Anna.
1640 – Another chickadee fed at feeder (could have been 1 of first 2 returned).

February 12
0900 45°F, mostly overcast. Chickadee came to feeder & drank as before. No other birds seen in the vicinity.
0911 – single chickadee again at feeder; took 2 sips (bubble seen to rise in tube).

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Kensington cont.

24 Feb. 1620 55°F.

Chickadee came to hummingbird feeder & took about 3 sips; another chickadee waited in bush nearby & when first left it immediately went to feeder & took several sips. 3 Anna hummers came while second chickadee was drinking. It approached to within 5" of chickadee - in several bursts - which at first ignored hummer and then flew off. Hummer also left; did not feed.

March 2 0830 42°F.

Chickadee came down to hummingbird feeder, took 3 sips & flew off.

March 6 50°F.

0836-42 Flock of 3+ chickadees feeding in yard. After about 3½ min., 1 chickadee came & fed momentarily at the feeder. They were calling actively and chasing each other. No hummers were around during this interval, but were present shortly before & after.

0848 - Flock came through yard again but did not go near feeder.

Weather: partly cloudy following rain during night.

March 14 0830 40°F. clear skies

1 chickadee came to hummingbird feeder momentarily (per NIL).

March 16 0823 48°F. (Light clouds)

1 chickadee took several drinks from feeder; no

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(16 March cont.)

Other birds in vicinity

March 17 48°F. 10:50 AM (pt. cloudy)

3 hummers around chasing each other. 1 chickadee went to feeder & leisurely drank several times. One hummer attacked chickadee & came so close it may have touched chickadee, but latter ignored hummer, drank once more & then flew off.

March 18

11:25 50°F. One chickadee flew directly to feeder, drank 3 times & flew away. No hummers noticed during the time, but many had been around all morning.

12:35 52°F. Another visit by chickadee: no hummers in evidence. Feeder under observation almost continuously from ~11:00.

April 27

Although the feeder has been continuously in operation to this date, a pair of chickadees is currently feeding a brood in a nestbox in the yard, so further utilization of the feeder by chickadees has been observed.

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Mojave Desert Trip

28 April Left Berkeley at about 0815 with Sheila Byrne to participate in study of the impact of "off-road vehicles" (ORV's) on the desert fauna & flora. Stopped briefly in Bakersfield for lunch. We made good time going via Interstate Highway 5. Between Frazier & Wasco (near Calif. 46) saw 2 Road runners. After crossing Tehachapi's & taking Calif. 14 north, we turned east toward Randsburg. At 3.4 mi. W Randsburg we came to one of the 2 study sites. We arrived at ~ 1550. About 1610 Bob Berry & Teri Jacks arrived with the traps from China Lake. Bob then left.

We found 2 corners of the grid (about 100 x 100 m.) & with a compass established the other two. Set out 100 traps (~ 10-12 m. intervals): rows A → J & lines 1 → 10. Then we drove 1.6 mi. further W on the road we had come in & then walked S from the road at a 45° ∡ (toward the Rand Mtns) & hence SE. for about ¼ mi. This brought us to the 2nd study area; the control as ORV's have not driven in that area. Here we set a second group of 100 traps in the same fashion. This we finished about 1830.

The control area has more flowers blooming, more small shrubs & herbs among the ~~Beechey~~ Larrea, & also more tracks of lizards, birds, rabbits, etc. However, not many small mammal burrows noted. The

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April 28 cont.

first plot has tracks of ORV's around every single Larrea shrub. There is also a large completely bare area near the grid which is used as a camping & staging area for the ORV's clubs.

Saw 1 small gopher snake on tracked grid while setting traps there. There seemed to be about the same amount of small mammal burrows on this plot as on the control - perhaps even slightly more.

Put up a tent & cooked dinner after dark. It was very windy all day but this died down somewhat at night.

April 29

Got 0530 to run traps. Teri Jacks & Peter Woodman arrived from China Lake about 0600. to help us. Checked tracked grid first & then control. Finished by 0800. All catch was marked, weighed & released. Catch:

tracked grid - Perognathus formosus -1
P. longimembris -1
D. merriami -4

control grid - D. merriami -3
P. longimembris -1

Of these 10 animals only 1 ♂ D. merriami from the control grid was marked from the last trapping in March. Of the 3 ♂ merriami on the first grid, 2 had testes not descended (but scrotum flabby & lg. epididyms) & 1 was partially desc. On the control, 2 of ♂ had clearly desc. testes.

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April 29 cont.

Both ♀♀ were lactating, but the one on the first grid seemed further along & may have been finished.

About 10-11:30 we checked both lines again & closed traps. The purpose of this was to see if we could catch any ground squirrels before it got too hot. We did have 1 Spermophilus lecurus in the tracked grid. We also got a number of Uta stansburiana. On both grids we caught & marked desert tortoises 1 on tracked & 2 on control. Several additional tortoises were spotted crossing the road & were helped across. Carnivore tracks seen frequently on both grids.

Actually it did not heat up too much today but remained very windy & cool. After lunch we went briefly into Randsburg for a few groceries.

From 5-7 (now on daylight saving time) we reset & visited both grids. We found that 1 trap too many had been set on the tracked grid.

Weather - continued cool, later cold, & very windy. We had dinner in a gale & dust storm. Large bank of clouds seen across the Tehachapi's.

April 30

The strong wind kept buffeting us until about 0230. Then it calmed down & remained so until ~ 0630. We got up at 0600 & checked both grids. Weather: quite cold and partly cloudy. There was a very large dark cloud off to south of Lake Isabella. The windshield of the car suggested that a few drops of rain fell during

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Apr 30 cont.

the night. Catch was similar to last night in spite of the very strong wind for most of the night. Trapped grid:

Perognathus penicillatus – 1 ad campt yesterday & 1 juv.

P. longimembris – 1

Dipodomys merriami – 3 (all recaptures)

Control grid:

P. longimembris – 1 (recapt.)

D. merriami – 3 (1 new + 2 recapt.)

Finished ~ 0745. After breakfast we walked south of camp looking for a possible study site which is more comparable to the trapped grid, particularly with respect to soil texture. All of the area to the south is trapped to some extent but much of it only slightly so, so probably could be used. Some of the area, especially toward the Rand Mtns. is more generally + rocky.

We noticed that the ♂ D. merriami readily retract their testes from the scrotum, so care must be exercised in interpreting non-scrotal ♂♂'s.

At 1100 we left for a drive to see some areas recommended to us by Kristin Barry. We drove back to Calif. 14 & then S on Neenalia Rd. to California City. Then on to the Randsburg-Mojave Rd. which runs along the SE side of the Rand Mtns. From this we turned toward the mountains on Buckwald Rd. In the foothills there is a

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April 30 cont.

large "pit" or camping & staging area used by the ORV clubs. We surveyed the extensive damage, took a few photos, & followed the road as it looped off into the sets & back to R-M Rd. We returned to California City for water & a few groceries.

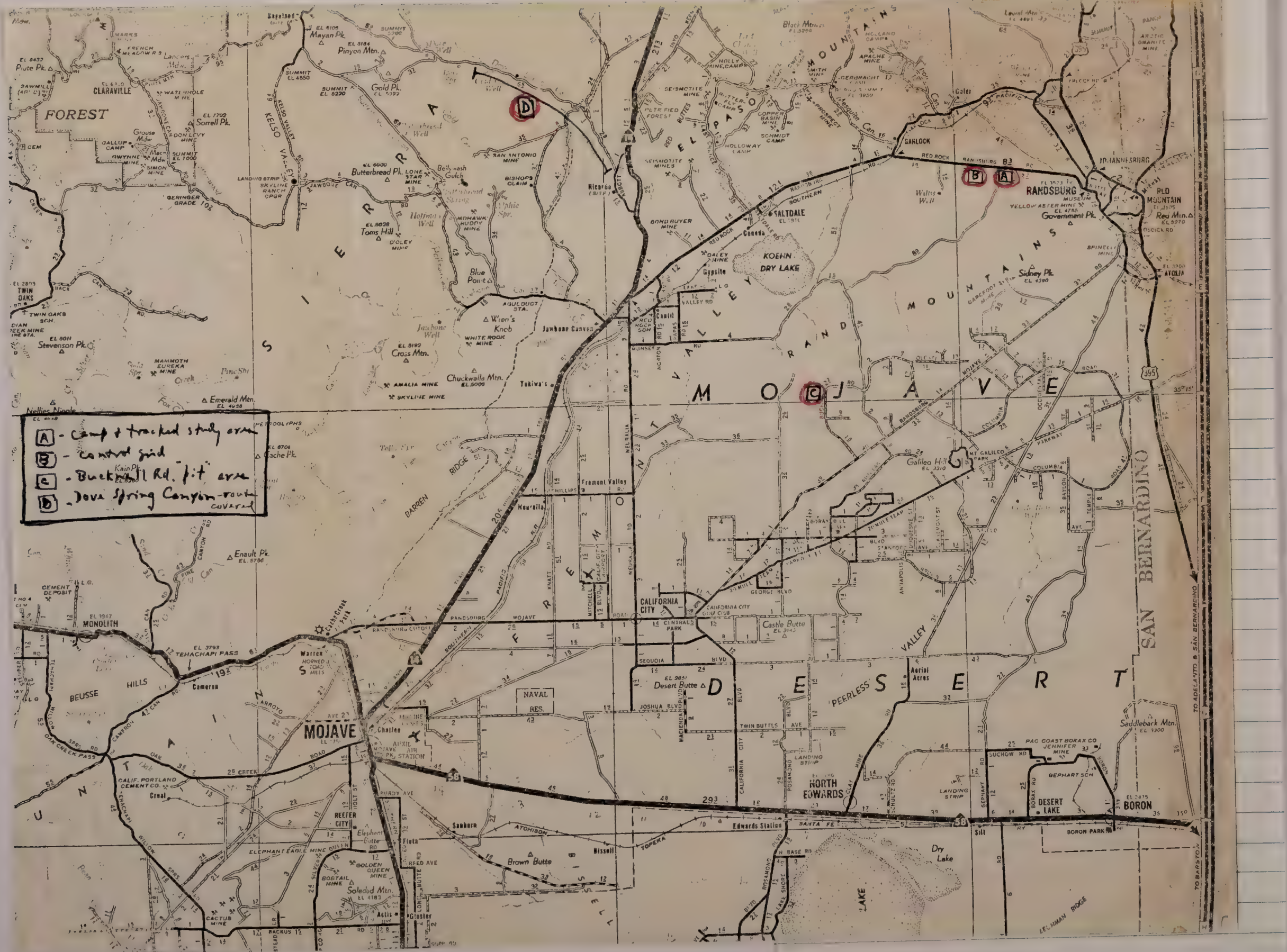
There had been scattered showers during the night & we could see evidence of it from Koehn Dry Lake to Calif. City. Several other squalls could be seen in the distance, especially to the N. We saw quite a few desert tortoises in the above drive, & carried them off the roads. Along Neenach Rd., N. of Calif. City & again in the Rand Mtns. we took photos of them.

We drove west of Calif. City to Calif. 14 & went N to Redrock Canyon, stopping for gas near the jct. with the Randsburg Rd. Then we drove up the Canyon nearly to Dove Spring. Almost the entire canyon has been ruined by ORV's. The destruction is hard to believe. We took a number of photos here too. It was partly cloudy with a few drops of rain now & then, & cold & windy. The wind was from the west. About 1600 ~~started back~~ started back to camp, arriving about 1630. We immediately set out to bait & reset grids. Traps had been left open all day. In trucked grid caught: P. longimembris - 1 recapture from this AM in same trap.

Spermophilus mojavensis - 1

Uta - 1

Mojave
desert
map


A - Camp & tracked study area
B - Control grid
C - Buckhall Rd. "pit" area
D - Dove Spring Canyon route covered
FOREST
CLARAVILLE
KELSO VALLEY
SIERRA
EL PASO MOUNTAINS
RANDSBURG
JOHANNESBURG
GARLOCK
SALTDALE
KOEHN DRY LAKE
RAND MOUNTAINS
MOJAVE
SAN BERNARDINO
MOJAVE
TEHACHAPI PASS
BEUSSE HILLS
MONOLITH
CALIFORNIA CITY
NAVAL RES.
DESERT
PEERLESS VALLEY
NORTH EDWARDS
DESERT LAKE
BORON
Dry Lake
LAKE
TO ADELANTO & SAN BERNARDINO
TO BARSTOW

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April 30 cont.

Control grid: nothing

Again we caught a Phrynosoma on the control grid, bringing our in this area every time we go there except early morning. On the tracked grid, I saw some of Steve's snap the snow on.

It was not so windy tonight at least so was much more pleasant cooking & eating dinner.

May 1

Got up 0545 & had breakfast. It was still calm, so if wind effects trapping results we should have a much bigger catch today than the previous two. We then finished up both grids. Catch (all recaptures):

tracked grid - D. merriami - 3
P. penicillatus - 1
P. longimembris - 1 & 1 Uta

control grid: D. merriami - 3

So there was a decrease in captures rather than an increase, & no unmarked ones were taken.

As we were carrying the traps off the control grid, Kristin Berry arrived to help, & to carry the traps back to China Lake. We talked to her awhile, finished packing up the traps & broke camp. We left for home at 1045. It was a very warm day on the desert. Saw Blk.-winged Stilt near Wasco. Arrived home ~ 1740.

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Kensington, Calif. (108 Willow Lane)

May 18 1855 (54°F.) 1 Chickadee hanging from spout of hummingbird feeder, & drank from it. This is the first first observation of a bird hanging from the spout rather than perching on it, & is also the 1st recorded incidence of chickadee use of this feeder since March 18. And this is in spite of the ~~fact~~ continuous presence of chickadees in the area during this interval.

May 23 1943 (56°F) Sev. chickadees in yard. One went to hummingbird feeder, perched on spout & drank twice.

Brooks Island

June 22 Left from LSB about 0845 with: Fred McCollum, Steve Arnold, Lynne Houck, Agneta Gill, & Virginia Mairorana. We went to the Ford Plant to pick up the boat. Arrived on the island about 10:30. Met the new caretaker, Mr. Al Betancourt who invited us to have coffee with him before we started to work. It was overcast & cool until about 11:00 when it began to clear up. The rest of the day was clear & quite warm. About 01:00 the usual summer west winds began to blow.

We walked around most of the island hunting, & catching garter snakes, & a few alligator lizards. We also, naturally, checked out Microtus sign & Fred made dust of many counts with a 5 ft.

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22 June cont.

aluminum rod which he throws out in a twisting manner. After counting 5 ft. he moves the rod in a straight line (1 end of the rod is marked with an X) so as to count an additional 5 ft. Voles are very abundant as expected for this time of year. Densities varied from 40-50/acre on the top of the island to ~140 on the S. beach, 200 on the W beach, & 250 on N end & E side. We saw & heard alot of mice in the morning especially. Also in flipping over boards & rocks for herps we saw alot of Microtus & more nests. We actually caught 5 mice (all agrestis):

Voles also com. in Sal: com: a

1 juv. (3 wks old) w/ small white chin spot which Agnetta brought back chin for her colony

3 yg. ad ♂♂ (5-7 wks old) with test. not desc.

1 ad. ♂ (2+ months old); TND also & as with the the scrotum was was white & unstretched.

Near the spring on the E side we found a freshly dead Rattus norvegicus (no obvious indication of mortality factor).

Al Bitterman said that 6 pairs of Carolina Wrens nested this year, but no yg. were raised successfully. One brood got eaten by a shark. He also reported that hard spraying of herbicide for poison oak is still continuing. We noticed that the bird feeders were all empty this time.

We left the island about 1605 with Al insisting on towing us in. We arrived at the Ford Plant at

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1645 & returned the boat.

Birds seen on & around the island:

Brown Pelican - 15±

Blk. cr. Night Heron - 15± (roosting in bushes on E side & feeding on mud flats in AM)

Mallards - 20±

Lesser Scaup - 1

Surf Scoter - 30±

Red tl. Hawk - 1 (being harrassed by a gull)

Calif Quail - 20± (including 1+ broods of about 12)

Pheasant - 15±

Killdeer - 15± (including 1 yg. ones)

Blk. bellied Plover - 14

Ruddy (?) Turnstone - 1

Willet - 30±

unident. peep - 1

Western Gull - many

Heermann's Gull - 1

Caspian Tern - 40± (many on beach just way out jetty)

Redwing - 30±

House Finch - abund Am. Goldfinch - 12±

Wh-cr. Sparrow - common

Song Sp. - abund.

Noticed that where old channel cut across fill & jetty, a nice Salicornia marsh has grown up behind some low dunes evidently just there to completely close channel. Two small ponds were also created in this way. We also noticed that Gambusia were abundant in 1 of the fresh-water ponds.

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Kensington, Calif. (108 Willow Lane)

June 23 1055 (66°F.). One chickadee flew directly to hummingbird feeder, perched on spout & took 4 sips. No other chickadees noticed at this time, although later a pair was in the yard.

June 24 1005 (60°F). One chickadee flew directly to feeder, perched on spout & drank several times. The territorial ♂ Anna hummer followed him directly to the feeder, but perched about 1½ ft. away while the chickadee drank. When the chickadee left, the Anna immediately fed at the feeder.

June 29 1835

1 chickadee flew to feeder & took 14 drinks. Weather: clear & cool.

July 4 1052 70°F.

1 chickadee to feeder, took ser. sips, hopped to nearby branch & after few moments went back to spout for few more sips. Then flew off.

July 7 1115 62°F

Chickadee went directly to branch about 1 ft. from feeder, & then went to spout for several sips.

July 12 1611 (obs. by NJL)

~~Chickadee~~ Anna hummingbird perched on toyon branch about 4 ft. away from feeder. Then it moved to feeder as a chickadee left.

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(Kensington cont.)

July 14 1100 60°F.

Chickadee went to hummingbird feeder, took 2 sips & left; no hummers in evidence.

1420 67°F

One chickadee went briefly to feeder.

July 18 1925 69°F. (sun on thermometer)

One chickadee went to feeder, drank several times while perched on the spout.

Sagehen Creek Field Trip

24-26 July

July 24 Left 11:30 to drive to Sagehen Creek Field Sta to work with Steve Smith on his chipmunk project. Ar. ~1515 & talked with Vern Hawthorne & Marshall White. Ar. on grid to find Steve hard at work ~1615. We worked without a break until 2115. Then returned to the Sta. for a sandwich before bed.

July 25 Worked all day with Steve on his grids. Watched chipmunks etc. in AM mostly, & by late morning began running grid traps. This time we returned to Sta ~2100, but we took time out to cook a dinner.

July 26 Worked on grid mostly watching until 11:30. Returned to Sta., stowed & said goodbye to Marshall. Left Sta. but stopped along the Basin rd to have lunch. Finally got underway 0100 & ar. home 1615. (cont. for bird list)

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Sagehen trip cont.

Bird lists for Sagehen Basin - all 3 days.

Turkey Vulture - 2

Red sh. Hawk - 1+ heard

Sparrow Hawk - 1+

Poor-will - serv. heard + 1 seen

Common Nighthawk - 1+ heard

Calliope Hummingbird - 1 ♂ + serv. ♀♀

Belted Kingfisher - 1 (once seen w/ 1+ fish in beak)

Red. sh. Flicker - 20±

"Red br." Sapsucker - 2+

Williamson's Sapsucker - 12±

Hairy Woodpecker - 15± (incl. 1 fledgling)

Empidonax - com. in brush or open forest (Dusky?)

also seen in heavy forest (Hammond's?)

W. Wood Pewee - 15±

Olive-sided Flycatcher - 25±

Mt. Chickadee - com.

Wh. br. Nuthatch - 20±

House Wren - 15±

Robin - 12±

Mt. Bluebird - 25±

Townsend's Solitaire - 2 (1 ad. + 1 juv.)

Nashville Warbler - 1

Yellow Warbler - 1

Hermit Warbler - 3

Audubon's Warbler - 2+

serv. unident yellowish warblers seen also

(cont)

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Bird list cont.

W. Tanager - 3+

Purple Finch - 1♀

Brewer's Sparrow - 1

Group of Crossbill-like birds in top of tall conifer, but not seen well enough; seemed all grayish; notes heard fit description of Pattern of Red Crossbill

Blk-headed Grosbeak - 1♀

Green-tailed Towhee - 15±

Vesper Sp. (?) - sev. sparrows seen which looked like this species, but white-outer tail feathers not noted.

Rufous-crowned Sparrow - 15±

Clipping Sparrow - 5±

Oregon Junco - 50±

Fox Sparrow - 12±

Song Sparrow - 1 (Creek area)

Sciuridae:

Marmota flaviventris - 1 (from Lettuce Lake so near cover)

Tamiasciurus douglasi - 1 seen + sev. more heard

Callospermophilus lateralis - abund.

Spermophilus beecheyi - 1+

Spermophilus beldingi - 10±

Eutamias amoenus - com.

E. speciosus - I didn't see any for sure, but Steve saw sev.

E. quadrimaculatus - 1

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Kensington Calif. (108 Willow Lane)

July 26 - Hummingbird feeder: 1825 (sunny). One chickadee came to feeder + took several sips.

July 27 (1912) - sunny. Chickadee to feeder; took several sips.

Aug 27 (1930) 64°F. Chickadee at feeder; took 3 sips + left. ♂ Anna H. in vicinity which watched but did not approach the chickadee.

Sept. 9 (1900) 62°F. Chickadee to feeder; took 2 sips + was chased off by Anna hummer. Returned, took 3 more sips + then flew off.

Sept. 11 (1837) 59°F. Chickadee at feeder for sev. sips.

Oct. 1 (1825) 55°F. Chickadee + ♂ Anna H. around the feeder + aggressively eyeing each other. As chickadee approached, Anna retreated to perch about 1 ft. away; chickadee stayed ~1 ft. away + they looked at each other. Anna H. then went to feeder + drank while the chickadee waited; then the hummer to a perch + chickadee went immediately to the feeder + drank while hummer watched. Before chickadee finished, the hummer left (another chickadee also left immediately).

Oct. 7 (1030) 57°F, light rain. Chickadee perched by feeder + then fed at sprout. While feeding a ♂ Anna H. arrived + hovered about a foot away for a few seconds. Chickadee then left + the hummer drank at the feeder. It looked

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Oct. 7 cont.

as if the humans may have shortened the chicken's drinking bout.

Oct. 13 (1409) - warm day. NIL saw chicken at feeder for few secs.

Nov. 16 (0740) 55°F., rain during the night.

Chicken to feeder for several drinks.

San Francisco - Golden Gate Bridge to Ghirardelli Square

Dec. 15 - 1030-1430 Walk along shore with Y-Section Birds further - can group.

Birds seen:

Com. Loon - 3
Red thr. Loon - 1+
unident. Loon - sev.
W. Grebe - 350+
~~Pied bl. Grebe - 3~~
Cormorants - 130+ (probably mostly Brandt's but a few seen to be Pelagic).
Les. Scaup - 1
Old-Squaw - 1 flock?
Wh.w. Scoter - 20±
Surf Scoter - 20±
Red. br. Merganser - 1 pr.
~~Bufflehead - 1~~
~~Golden-eye - 1 ♀~~
Coot - sev.
Black Turnstone - 4
Willet - 1

Sanderling - 50±
W. Gull - abund.
Herring Gull - sev.
R. bl. Gull - 10±
Calif. Gull - 20±
Bonaparte's Gull - 20±
Herrmann's Gull - 15±
Rock Dove - 60±
Starling - 150±
Brewer's Blackbird - 20±
House Finch - 15±
Wh. cr. Sparrow - 10±

Lidicker, W. Z.

1973-1974

catalogue

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California
Baja Calif.

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Brooks Island, Contra Costa Co., Calif.

11 Dec. 1973 (coll. by F. C. McCollum)

(kept. 24 Sept. 1974)

FCM 2982 ~~[illegible]~~ scabies; tests 6×4; et. visib.

3305. ♂ Microtus californicus 41.5 g. 184-49-21.5-14

FCM 2985 tests 5.5 × 3.5 mm.; et. vis.

3306. ♂ " " 42.4 g. 180-50-21-14.5

FCM 3012 tests 5×3.5; et. visib.

3307. ♂ " " 37.1 g. 172-49-22-14

FCM 2984 tests 4×2.5; et. not visib.

3308. ♂ " " 38.8 g. 172-50-21.5-14

FCM 2966 tests 6×4.5 mm.; et. visib.

3309. ♂ " " 41.3 g. 166-45-20.5-13.5

FCM 2963 tests 6×4 mm.; et. visib.

3310. ♂ " " 43.4 g. 179-50-20.5-14

Walker Pass, Kern Co., Calif.

27 May, 1974 (died in captivity 26 Sept. 1974)

coll. by V. C. Bleich - 740527-5

3311. ♂ Perognathus xanthonotus 11.5 g. (emaciated) 145-57-23-8.5

test. 5×3 mm.

carcass fors. in 10% formalin & sent to D. Huckaby - Long Beach St. U.

Mineral Springs, Tilden Regional Park, Contra Costa Co., Calif.

5 ~~8~~ Nov.

coll. by K. McDonald ~~[illegible]~~ + ~~[illegible]~~ sc.

3312. ♀ Peromyscus maniculatus 16.7+ g. 186+-32+-21-17

20 mi. E, 1 mi. S Tecate, 1000 m., Baja Calif. del Norte

11 ~~Nov.~~ Dec.

no ends, ov. inactive

3313. ♀ Neotoma lepida 120 g. 285-106-32-30

multip.

✓3314 ♀ Dipodomys agilis 51 g. 294-168-43-16.5

no ends, ov. inactive

3315 ♀ Peromyscus maniculatus 12 g. 168-75-21-18

test. 9×5 mm.

✓3316 ♂ Dipodomys agilis 50.5 g. 305-180-45-17

no ends.

✓3317 ♀ " " 53 g. 310-183-42-18.5

~~[illegible]~~ Mouth Arroyo Martinez, 22 mi. NW Ensenada, Baja Calif. del Norte

12 Dec.

no ends

✓3318 ♀ Reithrodontomys megalotis 11 g. ~~[illegible]~~ 172-88-14-15.5

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2 mi. WSW Maneadero, Baja California del Norte

13 Dec.

3319. ♀ Mus musculus — coll. by W. Glass + D. Bradford — 11.5 g. — 160-74-18-13 — testes 4 mm

N. coast Punta Banda, 7.5 mi. W Maneadero, Baja Calif Norte

13 Dec.

3320. ♀ Neotoma lepida — 135 g. — no ends. 331-141-35-32 — testes 17 x 13 mm

3321 ♂ Thomomys bottae — 91 g. — 216-65-28.5-6 — testes 24 x 13 mm

3322. ♂ Neotoma fuscipes — 258 g. — 421-193-38-32 — testes 17 x 11 mm

3323 ♂ Neotoma lepida — SKULL ONLY — 144 g. — 341-154-33.5-28 — test. 4.5 x 2 mm

3324 ♂ Peromyscus eremicus — 16.0 g. — 202-110-21-19 — test. 8 x 4.5 mm.

3325 ♂ Peromyscus californicus — SKULL ONLY — 37.7 g. — 237-122-26-25 — test. 18 x 11 mm

3326. ♂ Neotoma lepida — SKULL ONLY — 123 g. — 327-141-35-29 — test. 20 x 11 mm

3327 ♂ Neotoma lepida — SKULL ONLY — 177 g. — 332-153-34-29

5 mi. W, 1¼ mi. S San Telmo de Abajo, Baja Calif del Norte

14 Dec.

3328 ♀ Dipodomys — no ends, no skin — 55 g. — 282-153-41.5-17

3329. ♀ Dipodomys — no ends, nulliP — 53 g. — 290-165-40-17

N coast Punta Banda, 7.5 mi. W Maneadero, Baja Calif del Norte

13 Dec.

3330. ♀ Peromyscus californicus — no ends, sev. dk. skin — 31.5 g. — 243-130-25-25

2 mi. WSW Maneadero, Baja California del Norte

13 Dec

3331 ♂ Peromyscus maniculatus — test. 10.5 x 6 mm. — SKULL ONLY — coll. by P. C. Eschrich — 16.8 g. — 172-74-21-18

N. coast Punta Banda, 7.5 mi. W Maneadero, Baja Calif del Norte

13 Dec.

3332 ♂ Peromyscus maniculatus — test. 11 x 6 mm — 21.2 g. — 185-85-22-19.5

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5 mi. W, 1½ mi. S San Telmo de Abajo, Baja Calif. del Norte

14 Dec

3333 ♂ Neotoma lepida — 164 g — coll. by R.R. Kotel — test. 20×12 mm — 313-148-33-32

3334 ♂ Neotoma lepida — SKULL ONLY — coll. by D.F. Bradford — test. 22×14 mm — 208 g — 360-158-36-37

3335 ♀ Peromyscus maniculatus — coll. by D.F. Bradford — 17 g — 187-87-22.5-20

Oak Crossing, 5.6 mi. E Meling Ranch, 5640 ft. Baja Calif. del Norte

15 Dec

3336 ♀ Neotoma multip. — SKULL ONLY — coll. by D.F. Bradford — 166 g — 365-176-36-32

3337 ♀ Neotoma — coll. by D.F. Bradford — no ends — 158 g — 351-161-34-33

3338 ♀ Neotoma — coll. by L.A. Rigg — no ends, parous — 151 g — 370-179-34-29

Corona de Abajo, 7⅔ mi. E Meling Ranch, 6400 ± ft. Baja Calif. del Norte

15 Dec

3339 ♀ Peromyscus truei — multiparous — 18 g — 198-103-23.5-23

Oak Crossing, 5.6 mi. E Meling Ranch, 5640 ft., Baja Calif. del Norte

15 Dec

3340 ♂ Peromyscus boylii — coll. by L.A. Rigg — test 2½×1 mm — 17.5 g — 195-98-23-21

3341 ♀ Peromyscus boylii — coll. by D.F. Bradford — multip. — 15.5 g — 201-102-22.5-19

9.2 mi. E, 6.6 mi. S Colonia Cardenas, 1050 m, Baja Calif. del Norte

16 Dec

3342 ♂ Neotoma lepida — coll. by D.F. Bradford — test. 19×12 mm — 178 g — 369-173-33.5-31

3343 ♀ Dipodomys merriami — no ends — 35 g — 270-155-40-14

3344 ♂ " " — test 8×4 mm — 37.5 g — 262-148-38-14

3345 ♂ " " — test. 8×4 mm — 41 g — 269-150-39.5-14

3346 ♂ Dipodomys merriami — test. 9×5 mm — 38.5 g — 273-159-39.5-14.5

3347 ♂ " agilis — coll. by R. Kotel — test 10×7 mm — 58.5 g — 305-177-43.5-18

3348 ♀ Peromyscus maniculatus — coll. by R. Kotel — no ends, post. parous — 15.5 g — 174-79-22-19

3349 ♂ " eremicus — SKULL ONLY — test. 4×2 mm — 16 g — 199-103-21-21

LIDICKER
1974

Rancho Sangre de Cristo, 31⅓ mi. E Ensenada, 850 m., Baja Calif. del Norte

Dec. 17

3350	♂	D. polonus mariani	35 g.	test. 9×5 mm 251-142-36-13
3351	♂	D. polonus agilis	62 g	test 13×6 mm. 322-191-43-17.5
3352	♀	D. polonus mariani	35.5 g.	no emb, parous 256-140-37-12.5
3353	♀	" "	37 g.	no emb., parous 256-146-38-12.5
3354	♂	" "	31 g.	test. 7×3 mm 248-140-37-13
3355	♂	" "	31.5 g.	test. 7×3 mm 250-139-36.5-12
3356	♀	D. polonus agilis + chromosomes	54 g	coll. by P. Erdrich no emb, parous 306-180-42-17
3357	♂	" " + chromosomes	47 g.	coll. by L. Rigsby test 8×4 mm 292-170-42-17
3358	♀	" " + chromosomes	47 g.	coll. by D. Krohne no emb, parous? 262+-145+-42-16
3359	♂	" " + chromosomes	50 g.	test 9×5 mm. 297-172-43-17
3360	♂	D. polonus ~~mariani~~ + chromosomes	52 g	coll. by L. Rigsby test. 9×6 mm. 281-162-42-17.5
3361	♀	" mariani + chromosomes	28.5 g	no emb, 2 M. scars. 239-138-37-12
3362	♀	" "	32.5 g.	coll. by L. Rigsby. no emb, parous, ov. inact. 255-145-37.5-12

½ mi. S. La Misión, Arroyo Martinez, Baja Calif. del Norte

Dec. 18

3363	♂	Microtus californicus	32 g.	molt patches on back & neck & snout coll. by D.T. Krohne test. 5×3 mm + chromosomes 162-40-22-15

Rancho Sangre de Cristo, 31⅓ mi. E. Ensenada, 850 m. Baja Calif. del Norte

Dec. 17

3364	♂	D. polonus mariani.	32.5 g.	test. 9×4 mm 243+-104+-38-13
3365	♂	" "	29.5 g.	coll. by L. Rigsby. test 7.5×4 mm 239-134-38-12
3366	♂	" "	30.5 g.	test. 6×3.5 mm 253-145-37-12.5
3367	♀	" "	25.5 g	no emb + M. scars 240-135-36.5-12.5
3368	♂	Peromyscus maniculatus	26.5 g.	SKULL ONLY (killed 31 Dec.) test. 8×5 mm. 176-76-21-17.5
3369	♂	" "	19.5 g	SKULL ONLY (killed 31 Dec) test. 8×4.5 mm 175-82-20.5-18
3370	♂	" " test. 8×5 mm.	23 g.	SKULL ONLY coll. by R. Koford (killed 31 Dec.) 172-75-19-17

LIDICKER
1974
+
1975

Rancho Sangre de Cristo, 31 1/3 mi. E. Ensenada, 850 m., Baja Calif. del North

Dec. 17

3371	♀	Peromyscus maniculatus	no ends. + pl. scars. SKULL ONLY	27.5 g.	184-76-22-18.5 (coll. by P. Eschevich) killed 31 Dec.
3372	♀	" "	no ends. + pl. scars. SKULL ONLY	20 g.	174-73-21-17 (coll. by P. Eschevich) killed 31 Dec.
3373	♀	Reithrodontomys megalotis	no ends.	8 g.	153-77-17-13.5 killed 31 Dec.
3374	♀	" "	no ends.	10 g.	153-74-16.5-14.5 (coll. by D. Krohne) killed 31 Dec.
3375	♂	" "	test. 3 x 2 mm	7 g.	146-75-17.5-14

N. coast Punta Banda, 7.5 mi. W. Maneadero, Baja Calif. del North

13 Dec. (killed 31 Dec.)

3376	♂	Peromyscus maniculatus	SKULL ONLY test. 11 x 6 mm.	23 g.	174-71-21-18
3377	♀	" "	SKULL ONLY no ends. + pl. scars.	16 g.	176-74-21-18
3378	♀	" "	SKULL ONLY horns 1.5 mm. wide	22 g.	185-85-22-17
3379	♀	" "	SKULL ONLY diff. multiple; horns 1 mm. wide	15.5 g.	169-74-21-17.5
3380	♀	" "	greatly enlarged spleen SKULL ONLY multiple	20.5 g.	170-73-22-17.5
3381	♀	" "	SKULL ONLY no ends + pl. scars	20 g.	173-73-20.5-17
3382	♀	" "	tail badly scarred SKULL ONLY test. 8 x 4.5 mm	20.5 g.	190+82+-22-19
3383	♂	" "	SKULL ONLY test. 9.5 x 5 mm	17 g.	166-72-20-17.5
3384	♂	" "	SKULL ONLY	20 g.	174-77-21-17
3385	♀	" "	no ends., diff. multiple; horns 1 mm. wide SKULL ONLY test. 10 x 5.5 mm	17 g.	176-75-21.5-19
3386	♂	" "	SKULL ONLY no ends, diff. multiple	20 g.	167-72-21-18.5
3387	♀	" "		17 g.	162-69-20-17.5

4 1/4 mi. W, 2 1/2 mi. S Leggett, Mendocino Co. Calif.

March 23, 1975

3388	♂	Microtus californicus B/K.L	test 7 x 4 mm	38 g.	174-47-22.5-16
3389	♀	" "	5 ends x 3 mm	33 g.	168-42-21-14.5
3390	♀	" "	5 ends x 16 mm	36 g.	170-48-21-14.5
3391	♂	" "	test 9 x 6.5 mm	58 g.	197-52-22-15.5

LIDICKER
1974

Kensington, Calif. (108 Willow Lane)
(hummingbird feeder observations)

Jan. 19 (1204), 55°F. One chickadee came to feeder & took 2 sips; no hummingbird around at the time.

Jan. 27 (1330) 53°F. Wren-tit seen to eat toyon berry & then drink at the feeder momentarily. Another wren-tit followed the first after it left the feeder, but did not go to the feeder itself.
Beautiful, clear day.
(1337) - Wren-tit back to feeder. First one landed on spout & took sip very quickly.
(1400) - Wren-tit drank from feeder twice, partly hanging & partly perched from spout. [Jan. 29 - see Feb. 5]

Feb. 2 (1345) - Warm sunny day. Pair of wren-tits around feeder. Each fed in turn, taking 2 sips. Then after ~30 sec. each fed again taking 2 sips. ♀ Anna H. came later, but not when wren-tits were near feeder.

Feb. 5 (0835) 38°F - 1 wren-tit to feeder & took 1 sip. (1420) - wren-tit took at least 2 sips.
(1830) 46°F - Put up feeder after it had been removed for ~15 min. Chickadee came to within 1 ft. of feeder while I was still attaching it to the bush. I stood quietly but after a few minutes it moved off into a bush. So, I moved back ~7 ft. It came immediately & perched near the feeder where it sat & watched me for several minutes. Finally

LIDICKER
1974

Feb. 5 cont.

it went to the feeder twice, getting 1 sip each time. Pr. of brown-tits were calling in the vicinity.

Jan 29 (1719) - N'L recorded a chickadee taking 5 sips from the feeder.

Feb. 8 (0845-50), 44°F. Brown-tits went to feeder 8 times in quick succession (probably 2 birds involved). Each time the bird took only 1 sip & left promptly - seemed to be nervous. There was a ♂ Brown H. in the vicinity & was agitated. It mildly threatened the brown-tit(s) during the first 2 of the 8 sips. It fed at the feeder between sips 5 & 6, & also later. A ♀ Brown also fed shortly after the brown-tits left. Brown ♂ never approached closer than ~ 2 feet from the brown-tit.

Feb 9 (1800) - Pr. of brown-tits came to feeder & in rapid succession fed 8 times. They appeared to be taking turns & took 1 or 2 sips each time. Then they moved off in the opposite direction from which they approached.

(1819) Brown-tit at feeder again - 3 brief visits. Human complaining mildly but does not attack.

(1825) - Quick visit by brown-tit.

Feb. 10 (1816) - 1 chickadee at feeder, 2nd chickadee in the vicinity.

Feb. 11 (0814).

Human feeding, moved suddenly away as a

LIDICKER
1974

Feb. 11 cont.

Wren-tit went to feeder & drank. Hummer returned & was drinking when a wren-tit came & dislodged the hummer who backed off. Wren-tit took ~3 sips. In a few moments it came back, and a hermit thrush flew close by the feeder but the wren-tit did not leave.

(0830) - 46°F & overcast. - Wren-tit again to feeder momentarily.

(0857) - Wren-tit to feeder & pair of chickadees in nearby brush. One chickadee went on and the other acted as if it wanted to go to the feeder but was inhibited by the wren-tit in the brush nearby. The wren-tit went to the feeder once more, then the chickadee did, then the 2nd chickadee, & then the wren-tit several more times. A hummer came in toward the end of this action and hovered in an agitated fashion 3 or 4 ft. away, but did not attack. When the wren-tit finally left, the hummer fed (Anna, ♂?), and the hermit Thrush flew by quite close but the hummer did not leave. Then the hermit thrush seemed to chase a wren-tit by flying in its direction several times, but pursuit was not close and the wren-tit seemed to ignore the thrush.

Feb. 12 (0930) 46°F. Two wren-tits taking turns at the feeder; each went twice & took up to 5 sips at each time. A ♂ Anna H. watched the end of this session, but stayed ~10 ft. away.

LIDICKER
1974

Feb. 12 cont.

(1836) - NIL saw chickadee take 3 sips at the feeder.

Feb. 15 (1820) - pair of brown-tits to feeder for total of 8 visits - 4 each + 1 to 3 sips at each visit.

Feb. 16 (1832) - Pair of brown-tits to feeder - 3 visits in short succession, and then a Anna H. came in a fed hesitantly. Finally, the left and brown-tit(s) resumed trips to feeder, & went 6 more times for total of 9.

Feb. 18 (1035) 50° F., overcast. Two brief visits by brown-tit(s), followed by ♀ Anna & later by ♂ Anna H.

Feb. 19 (11:05) - NIL saw 2 feeding bouts by brown-tits

Feb. 27 (1830) 12 consecutive visits by a pair (presumably) of brown-tits.

Feb. 28 (1826) - NIL reports brown-tits made 5+ visits to feeder (not sure whether 1 or 2 birds involved)

March 1 (0835) - overcast. 11+ visits by brown-tit(s) to feeder in rapid succession. Selasphorus (probably ♂ Allen's H.) was in the vicinity & watched procedures, darting in occasionally, & at 1 point took a drink (between about visits 9 & 10 of brown-tits). The S. was wary of the brown-tits and approached cautiously. On two occasions the brown-tit seemed to flee the feeder when the S. ground by about 5 ft. away.

(0846) - 2 more visits by brown-tit

March 2 (1330) - 1 visit by brown-tit to feeder

(1332) - 1 visit, 3 sips by b-tit. [March 8; cf. March 14]

March 9 (1210) - 1 brown-tit to empty feeder. After few moments the pair moved to drying tryon branch,

LADICKER
1974

March 9 cont.

and I ate a dried berry, & the other tried to reach one. About 2 min. later I saw a tit land back momentarily to the empty feeder.

March 12 (1904) - 3+ visits by brown-tits. At first visit observed, the second bird sat on a twig about 8" away from the first on the sprout. The second bird then stayed for an unusually long time on the sprout - taking at least 5 sips.

March 14 (0915) - NIL reports 2 bouts of feeding by brown-tits (first w/ 6 sips & second w/ 3). These probably not the first drinks as birds were already feeding when first noticed. Both seemed very "relaxed" relative to the way they usual to be.

March 8 (12:15) - NIL saw 4+ feeding bouts by brown-tits.

March 17 (1829) - A brown-tit went to feeder only once for 2 sips; Selasphorus H. ~12 ft. away.

March 19 (1910). Three visits to feeder by brown-tit (may be only 1 bird as about 30 sec. between visits instead of almost immediate replacement as before when 2 were alternating).

March 20 (0852-3) - 3 quick visit by brown-tit(s).

April 1 (1921) - a brown-tit at feeder. Went once, took 3 sips, & then resumed singing.

Tilden Park - Zool. 107 field trip

April 27 - S. of Jewel Lake, Loop trail & lower Laurel Canyon in the morning. Birds seen.

LIDICKER
1974

April 27 cont.

T. Vulture - 1
Calif. Quail - 15±
Band-tailed Pigeon - 10±
Mourning Dove - 25±
Anna's Hummingbird - 2+
Rufous " - 2+
Allen " - 15±
Calliope " - 2+
Red. sl. Flicker - 2+
Downy Woodpecker - 1
Ash-throated Flycatcher - 1
Olive-sided " - 10±
Steller's Jay - abund
Scrub Jay - 15±
Chestnut-backed Chickadee - 12± (including pair bringing food to nest.)
Plain Titmouse - 10±
Bush-tit - 2+
Wren-tit - 10±
House Wren - 3
Bewick's Wren - 5±
Robin - 10±
Cedar Waxwing - 35± (including 1 carrying food)
Starling - 10±
Warbling Vireo - 2+
Orange cr. Warbler - 15±
Yellow-throat - 1? (heard only)
Bullock's Oriole - 2
Brown-headed Cowbird - 4±
Black-headed Grosbeak - 10± (incl. 1♀ incubating)
House Finch - com.
Purple Finch - 1?
Amer. Goldfinch - 10± (including pair bringing food to nest.)
Lesser Goldfinch - 1
R.-sided Towhee - com
Brown Towhee - 20±
Oregon Junco - 25±
Song Sparrow - com.

Total of 27 species (2?)

Coyote Hills Regional Park - Zool. 107 field trip

May 3 (0805-1230).

Alan went across Dumbarton Bridge to E. Palo Alto shore area w/ Harry Recher & Bonnie Brown (12:30-1700). Birds recorded: (PA = Palo Alto; CH = Coyote Hills)

Pied-bill. Grebe - 1 (PA) Gt. B. Heron - 1 (PA)

LIDICKER
1974

May 3 cont.

Snowy Egret - com.
Mallard - num.
Gadwall - 10± (PA & CH)
Pintail - 25± (")
Cinnamon Teal - 30±
Shoveler - 8± (PA)
Lesser Scaup - 30±
Ruddy Duck - 6±
T. Vulture - 3
Red-tailed Hawk - 1
Calif. Quail - heard once
R.-necked Pheasant - 12±
Coot - com.
Semipalmated Plover - 20± (PA)
Snowy Plover - 5±
Killdeer - 20±
Black-bel. Plover - 30± (PA)
Ruddy Turnstone - 10± (PA)
Black " - 5
Whimbrel - 2
Willet - 1 (PA)
Gt. Yellowlegs - 1 + 2? (CH)
Knot - 2 (PA)
Dunlin - 45±
Dowitcher - com.
W. Sandpiper - 1000's +
Am. Avocet - 30±

Black-necked Stilt - 60±
N. Phalarope - 100's
Glaucous-winged Gull - 1 (2nd yr.)
W. Gull - com.
Calif. Gull - 20±
Ring bl. Gull - 40±
Forster's Tern - com.
Black Tern - 2 Dumbarton Bridge near radio sta. + 1? at P.A.
Rock Dove - nu.
Mourning Dove - 20±
Burrowing Owl - 1
Allen's Hummingbird - 2
Black Phoebe - 1
Tree Swallow - 2?
Bank " - 1?
Barn " - com.
Cliff " - abund.
Scrub Jay - 4 (CH)
Com. Bush-tit - 15±
Bewick's Wren - 1
L. bl. Marsh Wren - com.
Mocking bird - 2
Ruby cr. Kinglet - 1 (CH)

(cont.)

LIDICKER
1994

May 3 cont.

Loggerhead Shrike -2+
Starling -3
Orange-cr. Warbler -2+ (CH)
Yellowthroat -1 (CH)
Wilson's Warbler - 8±
W. Meadowlark -3
Red-wing - abund.
Bullock's Oriole -4 (CH)
Brewer's Blackbird - com.
Brown hd. Cowbird - 8±
Lazuli Bunting - 1 pr. (CH)
House Finch - abund. (CH)
Am. Goldfinch - 15±
Brown Towhee - 10±
Savannah Sp. - 1
White cr. Sparrow - 5±
Golden-cr. Sp. - 2
Song Sparrow - com. (ssp. abundant = Soli cornia marks of PA.)

Total = 71 species.

LIDICKER
1974

Orinda, Contra Costa Co., Calif.

June 29 - Set out 48 Longworth live traps in order to catch Microtus in O.P. Pearson's "backyard", i.e., across the creek from his house. Set from ~1700 - 1930. Sunny, hot day. Used oatmeal for bait but added small chunk of carrot to every other trap. Rolled corn was used for pre-baiting. Sign scarce, but every trap was set in a runway which looked hopeful. In a few cases definitely fresh cuttings or droppings were noted.

June 30

Picked up all traps 0930-1130. 7 of 48 were marked as carrot or non-carrot when picked up. Catch:

Peromyscus truei - 1 yg ad in non-carrot trap: released.

Microtus californicus - 8 + 1 trap which contained a M was tipped on its side & vole was gone. 7 of the 9 M. traps were marked as "carrot" but when traps were checked in animal room later, 2 of these had no sign of a carrot chunk; I am not sure whether the traps were incorrectly designated or the carrot fiend was completely eaten. ∴ only 5/9 were definitely carrot-baited.

Weather: cool night & mostly overcast in AM.

Mice were for research of Bonnie Bowen.

LIDICKER
1974

Kensington, Calif. (108 Willow Lane)

August 18 - 1600 (75°F.) - 1 chickadee observed feeding at hummingbird feeder; took 4 sips. This is the first observation of this behavior since before the breeding season (last obs. of non-hummer at feeder was on April 1). Feeder was maintained during this interval, but there were extensive periods when I was out-of-town & observations could not be made.

Oct. 25 (1254) - NIL reports 1 chickadee at feeder; took 5 sips by perching on spout.

Oct. 27 - 0940, mostly overcast, rain during the night, 55°F. Flock of chickadees & 1 Townsend's Warbler in backyard. One chickadee went to feeder, sat on spout & took 4 sips. It chased an Anna H. away when it went to the feeder. Another chickadee took an interest in the feeder, but did not go to it.

1110, mostly overcast, 63°F. Chickadee came to feeder & hovered 3 times with short rest in between. NIL saw a chickadee looking for the feeder when it was removed for filling.

Although I cannot find any record of it, the feeder must have been discontinued shortly after this as no further observations were recorded

DICKER
1974

Baja California Trip.

9 Dec. to 19 Dec.

9 Dec. Left Berkeley about 0930 with Pete Eschrich, Roy Koford & Larry Riggs in MVZ camper truck. In Tracy we stopped to buy bait at a feed store. Then we continued down Interst. 5. It was very cold & foggy (mostly light) most of the way. We stopped for dinner just N. of Los Angeles (Castaic). Then we went on to San Diego. We arrived at the house rented by the Chile-Calif IBP program near the campus of San Diego St. Univ. (5665 Hardy Ave). Bill Glass made the arrangements for us & was there to meet us. We arranged with Lion & Dave Bradford (former MVZ student) to meet the 5th member of our party Dave Krohne in Tijuana on Weds. 11 Dec.

On the trip down to San Diego, the only live mammals we saw were Spermophilus beecheyi. Dead was striped skunk & Lepus californicus. Birds noted.

Kestrel - com.
Rock Dove
Red-tail Hawk - occ. + unident. buteos
Mountain Bluebird - 1
Turkey Vulture
Horned Lark - few
Meadowlark - com.
Red-winged Blackbird
Brewer's Blackbird
House Sparrow
Loggerhead Shrike - com.
Coot
unident gulls
Ring-nk. Pheasant - 1 (Koford)
Marsh Hawk - 1 (Koford)

LIDICKER
1974

10 Dec. After breakfast drove to downtown San Diego to get Mexican insurance & tourist cards. Then headed for Tecate on Calif. 94. Birds noted on this stretch: Mocking bird Starling
Red H. Hawk Cooper's Hawk

In Tecate we stopped to buy some carnegie & then headed east on the highway to Mexicali. We were looking for a locality where Chester Lamb caught Microtus californicus in 1927. It was 16 mi. by rd. E of Tecate and then about 2 mi. N on a diminutive road = N. end Nachoguero Valley, 3400 ft. At 16 mi. by rd. E we found a dirt road going N so we took it & went 2 mi. at which point we came to a dry stream bed & an abandoned house. There were a few scattered willows along the creek bottom & a small grove of oak trees. A little further on were 3 small ponds in quick succession. We stopped for lunch beyond the third & then backpacked the creek bed for quite a way. There were a few additional willows but no marsh or sedges & of course no water even though there had been alot of rain in the past few weeks. We helped the rancher from the third house start his stalled truck. He said his well was 40 ft. deep & it was only a few yds. from the stream course.

We decided to check the next valley to the east, so we took a bad dirt track which runs approx. parallel to the main highway & 1 mi. from it abt. miles east until we came to another dirt road going N NNE along the next

LIDICKER
1974

10 Dec. cont.

Valley. We drove up this past 1 large range & stopped about 1 mi. further to camp among the oaks on the valley flow. This location is: 20 mi. E, 1 mi. S Tecate, 1000 m. In several places the valley widens out and there is a meadow but all are heavily overgrazed. We can imagine that these meadows and stream corridors could have had cover suitable for microtus in the past, but not now. There is no willow or sedges & of course no flowing water. Started setting traps in a heavy chaparral 1530. & set large collapsible Sherman's baited with mixed chicken scratch, crimped oats, oat meal & small piece of potato. Set 15 along stream course & 5 more on edge of chaparral. Then set 8 along a rocky outcrop & 11 out across the overgrazed meadows at 50 yd. intervals. Larry Riggs & I then set 4 gopher sets as it got dark. Gopher sign is abundant.

Saw Spermophilus beecheyi shortly out of Tecate, a bobcat along the dirt rd. parallel to the highway & a coyote in the meadow as we approached our campsite. Larry saw a Blk th. Jackrabbit

Birds seen since Tecate: Red th. Hawk - sev.

Calif. Quail - sev, always seen on edge of camp.

Scrub Jay - sev.

Red sh. Flicker

Brush. tit (Larry Riggs)

Lawrence's Goldfinch - ~25

W. Kingbird

W. Bluebird

LIDICKER
1974

10 Dec. ~~#~~ cont.

A large owl flew out of one of the oak trees as we pushed our camper. At 8 p.m. we took the temperature: it was 26°F.

At the other valley (Nachoguro?) we found cuttings in the willows of beaver + tuzzy. The tuzzy were cut by a rodent + not a rabbit.

Although it was freezing cold, we checked as many of our traps as we could find (2100-2230). I had 1 Neotoma lepida from a rocky outcrop + a Dipodomys agilis from the "meadow": it was 22°F at 2230. Very cold night. I slept in tent + got very little sleep. Heard Poorwill calling during night.

11 Dec. Water in camper sink frozen in morning.

Got up ~0645

Checked + picked up all traps except gopher sets before breakfast. I had 1 more D. agilis from the edge of chaparral + 4 Peromyscus maniculatus from along the side of the creek. Gopher sets picked up about noon - 2 were complete, 1 burrow was plugged + the 4th we never did find.

We set up our lab + processed 8 animals, taking blood samples, kidney + liver tissues, + then skinning. The blood samples were centrifuged, the red cells rinsed in saline + each fraction frozen separately in liquid N_2. We finally left our campsite about 1400. Birds noted around camp today: Starling, Oregon Junco - several flocks, Lawrence's Goldfinch - several flocks

LIDICKER
1974

11 Dec. cont.

Calif. Quail, W. Bluebird, com.
Raven -2, Flicker
Brewer's Blackbird, etc.

On way to main highway we noted that we were 1.2 mi. N of the ranch, 1.8 mi. to the dirt rd. running parallel to the highway & 2.6 mi. to the highway. From this jct to the road we were off the highway on yesterday was 0.9 mi. & 2.7 mi. to Cañada del Sol development to N of highway. This latter turnoff, on recalculation is ~16 mi. by rd. from Tecate & may be the place C. Lamb turned off in 1927. 4.9 mi. from where we joined the highway to Loma Tova.

We went on to Tecate & then Tijuana. Here we changed some money & continued on the new toll highway toward Ensenada. The sunset as we were driving south. Additional birds noted between camp & the coast: Roadrunner (sev. mi. W. of Tecate).

Arrived back at La Salina at dusk. There we met Dave Bradford, Dave Krohne, & Bill Glanz as we had arranged. We drove N across the Arroyo Martinez & found a road down into salt marsh in arroyo to camp. This is just E of the toll highway 1D but W of the old highway no. 1. Although it was completely dark, we all set out some traps in the marshes. I set out 17 Sq. coll. Sherman's in the Salicornia & Distichlis; then I drove north some large clumps of "spike grass". In all of this, no definite fresh Microtus sign

LIDICKER
1974

11 Dec. cont.

Hours seen. Then with Peter E, we set 7 more traps (4 for me) under some spiny grass with Salicornia rather than Dystichlis around here. Here we saw Microtus cuttings & a few genuine runways. At dusk noted Coot - 2 & Killdeer - sev. After dinner, wrote notes & discussed plans for next few days. This locality we are calling Mouth Arroyo Martinez (although our maps are ambiguous as to whether this is the correct name), 22 mi. NW Ensenada. Total of 146 traps set.

Heard Hyla regilla calling.

Dec. 12 Up at 0645 - cold & windy. Checked traps. I caught 1 Reithrodontomys megalotis in my very first trap. Nothing else was caught by anyone in our group. Peter & I kept out our traplines until after breakfast. On returning from the trap check, I found a good Microtus runway in Salicornia so I moved one trap from my line to this spot. After breakfast I picked up traps & we loaded truck & Dave Bradford's car. Birds seen in camp area:

Coot - con.	Com. Raven	unident. gulls
W. Meadowlark (one singing)	L. bl. Mask Warbler	Wh.-cr. Sparrow - sev.
Eared Grebe - 1	Pied bl. Grebe - 1?	Road-runner

Others went to beach & saw alot of other species. Drove our old highway to Ensenada. Left camp about 0915. When highway crosses Arroyo Martinez there are some marshes including some cattail & a large patch of spiny grass. This should be a good place for Microtus. In Ensenada, we stopped for some groceries

LIDICKER
1974

12 Dec., cont

& a battery for my camera's light meter. Then we continued S to Maneadero & turned W toward Punta Banda. Along when on ~~AMA~~ map shows "Three Sisters" we turned N on a dirt road camped on a bluff overlooking the ocean. This is: N. coast Punta Banda, 7.5 mi. W Maneadero.

Birds seen on route from Arroyo Mardinez to Punta Banda camp were: W. Meadowlark, W. Bluebird, House Finch, W. Kingbird, Kestrel, Red-tailed Hawk, W. Crows & family Ravens as well, Loggerhead Say's Phoebe, Shrike. Also saw Spermophilus beecheyi - ser.

We arrived at our new camp about 1300, & immediately set to work processing animals from our Tecate camp. At about 1400 we had lunch & then set out to set traps. Dave B, Dave K, Rolf K & B. Glang took the car back toward Maneadero to set in edge of cultivated fields. The rest of us set around camp. I set 34 lg. coll. Sherman's in & around 2 shallow arroyos running to bluff. In the first 2 hours 18 traps baited with mixed seeds. This arroyo was filled with brush with lots of agave & some grass. Neotoma sign was abundant. Also saw Sylvilagus droppings & possibly Microtus as well. The next gully was slightly moister & had one pool of water & a few clumps of a Phragmitis-like grass. Set 16 traps here baited with seed mixture mixed with peanut butter. Definite Microtus sign here including fresh greenish droppings.

LIDICKER
1978

12 Dec. cont.

In fresh & mud along gully saw tracks of Neotoma & bobcat. Then met a gopher snake. There is lots of gopher sign around. Then we fed up the tent as it was getting dark & Larry & I began processing the remaining 4 live mice. After this the car returned & we had another skinning session in the tent with a Coleman lantern. Dinner about 2000. Then we went to room field notes. Birds seen around this campsite:

Common sp. - 50+

Brown Pelican - 3+

White " — seen by Larry

W. Gull

Scaup - 50± (½ mi from Manzanero)

Brown Towhee - sev. Wren-tit - 1?

Sage Sparrow (Bell's Sparrow) - sev.

W. Kingbird Anna Hummingbird - ♂ heard singing

Wh. tl. Kite ? - 1

Seen by others: Burrowing Owl, Blk. chinned Hummingbird, Marsh Hawk, L.bl. Curlew (the curlew & owl were down nearer Manzanero).

Ran trap lines about ~~the~~ 2200. I had 8 animals in my set of 18 traps & 10 in my set of 16. One trap which was removed in the 2nd line, & replaced so 7 traps remained overnight. My catch was mostly Neotoma, & Peromyscus californicus & a few P. eremicus. Then I helped Dave Brakefield set out some ~~the~~ squares for collecting droppings.

LIDICKER
1974

Dec. 13 – Up at 0645 to check traps. I had 1 more Peromyscus calif. & 1 P. maniculatus in the 2nd gully (orig. 16 traps). In the new gully, I had 1 more Neotoma (a fuscipes taken under a Rhus integrifolia) & 1 Peromyscus. No one caught any Microtus, including the group that trapped at 2 mi. W Manzanero. In the trap I had set in the marsh with greenish droppings, I got only a Peromyscus californicus (trap replaced with Peromyscus removed). Also got 1 gopher in my two sets. After breakfast, we worked on specimens until 1300. Then we packed camp & left. Birds seen around camp: W. Kingbird, Cor. Raven, Brown Pelican, W. Gull, Cormorant sp., Peregrine falcon, Red-tail. Hawk, Kestrel, Brown Towhee, Wren-tit (song heard)

In the Bay of marshes near Manzanero, we saw:

Dowitcher – several hundred
Marbled Godwits – ~~many~~ 100±
Willet – 100±
Greater Yellowlegs – 2+
Knot – 5?
Western peeps – hundreds
Teal (Green wing?) – 20±
G+ Blue Heron – 5
Amer. Egret – 1
Green Heron – 1
Blk.-bellied Plover – 2
Whimbrel – 1
Buffleheard – 8
Scaup – 50+

LIDICKER
1974

Dec. 13 cont.

Then we headed south. Found a DOR St. H. Owl 7 mi. N Ejido Urnapan & saw a Sphenophilus huachucae 7 mi. N. of San Vicente. At 2 mi. N Ejido Urnapan saw an area of "spike grass" which may have Microtus in it. At San Vicente we got gas & water. About 1 mi. S of the turnoff to the Melting Rock, we took an inconspicuous road toward the coast. This is at a very small village called San Telmo de Abajo. The road parallels the bed of the San Telmo Arroyo. We were looking for possible Microtus habitat. But of course the river bed was dry, & the flats were mostly plowed up. After going about 6 mi. we turned (just just where road crosses the arroyo & one can see the ocean several miles away) around & drove back about a mile to camp in the shelter of some large Rhus "trees".

I set out 20 lg. coll. of Sherman across the flat of the valley where the soil was quite sandy. The area had been plowed previously but apparently not for some years. There was an abundance of burrows, many being obviously fresh. I put traps using by lg. fresh burrows that seemed to be those of a large Dipodomys. Then I set 5 more on the camp side (N) of the road where the soil was darker, less sandy, & much rockier.

After dinner we skinned until ~23 00. Then I checked my traps. In the line of 20 I had only 1 Peromyscus eremicus & 1 spring trap. I also saw

LIDICKER
1974

Dec. 13 cont.

Perognathus or Dipodomys. In my stake line I had 3 D. ingens, 2 P. arenicolus & 1 P. mericulatus. Since all traps were full, I picked up the entire line.

Birds seen between Manantillo & new camp included: Starling, Mt. Bluebird, Horned Lark (SOTS), Kestrel, Red-tail. Hawk, W. Kingbird, Meadowlarks. In camp: Wh. crowned Sparrows, Calif. Quail.

Dec. 14

Got up 0645 & could hear the surf at the ocean. The air was very damp & there was a thin fog. Took several photos. Picked up my remaining traplines, had only 1 additional Perognathus. After breakfast we processed animals & broke camp about 1300. Birds seen around camp:

Audubon's Warbler - 15±

Wh. cr. Sparrow - sev.

Brown Towhee - sev.

Mt. Bluebird - sev.

I still think there must be a large species of dipo in this valley even if we did not catch any.

Drove back to the main road & then N. to the jct with the rd. to San Telmo. Mileage from camp to San Telmo de Abajo was about 4½ mi. On the rd. to San Telmo we noticed an area of spike grass & willows 4.8 mi. from the turnoff. 11.8 mi. beyond San Telmo is the road to Mike's Sky Ranch. We continued on toward the Meling Ranch. About ~~[illegible]~~ 15 mi. from San Telmo we saw an Ammospermophilus. 3.7 mi. further we took photo of

LIDICKER
1974

14 Dec. cont

scenery. About 12 miles upon the ~~from~~ Meling Ranch, we saw the first piñon pine. About 4½ miles further we came to the park entrance. Shortly before this we thought we saw a chickaree ~~upon~~ across the road. On the way up the mountain we identified few birds but twice saw a large falcon at a distance too great to identify for sure. Also saw Red-tail. Hawks.

The warden at the Park entrance refused to let us in on the grounds that he was closing the park until Dec. 27. We argued with him but he would not give in. We were very anxious to get to Vallecitos meadows to look for Microtus. As it was about 4 pm. we turned back a few hundred yards & camped among the jeffrey pines. Three of us set traps around camp (Corona de Abajo, 7⅔ mi. E Meling Ranch, 6400± ft.) – the elev. was estimd. from topo: "Camping & Climbing in Baja" by John Robinson, & topo maps which seem to have significantly lower elevations. The other 4 drove down 3.3 mi. by road to Oak Crossing, 5.6 mi. E Meling Ranch, 5640 ft. This last location is where trail leads to S to Oak Pasture or on to La Grulla, & and 20 lg. colleg. Sherman's new camp at bottom of dry creek bed where there was some scattered clumps of willows. Afternoon we processed more animals.

Dec. 15

It got below freezing during the night but it was not as cold as the night E of Tecate. Checked my traps but left them out. Caught only 1 Neotoma & 1

L. DICKSON
1974

Dec. 15 cont.

Sev. of the group (~~Dave~~ Bradford, Glang & Kilpatrick) went back to the park entrance to see if we could go in guide for the day. Weather was negative as ever & mid park was closed until Jan. 1. We also said road from Vallecitos to Mike's Sky Ranch was closed.

Peromyscus truei: the wood rat was later accidentally released (in the evening) by Betty E. when she was trying to anesthetize it. Heard & saw lots of chickarees, & saw lots of chipmunks. We did not skin animals this morning, but released on backlog of live animals by caging 12 P. maniculatus from Punta Banda camp for keeping for transport to Berkeley. Also killed off most of our P. maniculatus from San Telmo de Abajo camp, measuring them & getting reprod. data, paying special attention to the double captures. The single captures were:

♂ 23.0 g 181-86-22-20.5 test. 7x4 mm.

♀ 21.5 g 177-81-21-20 vag. & pel. closed; nulliP.

♂ 23.5 g 179-81-22-19 test. 4x2 abd

♂ 17.0 g 171-83-23-19 test. 5x3 abd. coming in

♀ 16.5 g 158-71-22-17.5 nulliP, vag. & pel. closed.

♂ 21.0 g 167-78-21.5-19 test 7x4, active.

♂ 21.0 g 192-93-22.5-19.5 test. 8x4, active

♂ 18.5 g 170-80-22-18 test. 5x3, abd.

♂ 22.0 g 180-83-22.5-20.5 test. 8x5, active

The double captures were:

♂ 20.5 g 176-81-21.5-19.5 test. 7x4 active
♂ 16.0 g 153-67-21-17 test. 4x2 inactive

♀ 14.0 g 151-72-20-18 nulliP; vag. & pel. closed
♂ 17.0 g 170-80-21-19 test. 5x4, active

♀ eremicus 15.5 g 190-100-20.5-18.5 nulliP; vag. & pel. closed
♀ maniculatus 22.5 g 184-81-22.5-19.5 vag. closed; pel. cl. open, placs. scars - 1 ant. + 2 left; N: Mike only

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~~1969~~
1974

Dec. 15 cont.

♀ 15.0 g. 149-66-20-17.5 nulliparous, very & fol. closed

♀ 20.5 169-75-22-19 very closed, old plac. scars, 3 rt. & 0 left; nipples very small, P. sl. sep.

♀ 16.5 maniculatus 16.5 g. 162-73-21.5-18 nulliparous

♀ 18.5 eremicus 18.5 g. 191-101-20-18 2 embr. x 18 mm, 1 cl. in each ov.

Among the 12 P. maniculatus from Punta Banda first in 3 cages, 4 composed 2 double captures. These were each adult heterosexual pairs as follows:

♀ ad., imp. 19 g. & ♂ ad. 21.8 g.

♀ ad., imp. pairs, visibly pregnant, 21 g. & ♂ ad. 19.2 g.

Start way up the creek bottom from my traps: we found traps of water & mostly frozen.

At 1100, finished up my trapline – nothing more was caught.

We left camp at 1125. Birds seen around camp:

Flicker	Robin – 1
Unidentified Dendroica species	Fox Sparrow – 1
Scrub Jay	Mt. Chickadee – 12±
Pygmy Nuthatch – 20±	
Oregon Junco	
Hermit Thrush – 20±	

Then we drove to Oak Crossing where the others had just gathered up their traps. Bradford had caught a chipmunk.

About ½ mi. down trail to La Grulla is Oak Pasture. This is a grove of oaks, with 4 apple trees, a spring & grassy area, all together a lush oasis. We looked carefully for Microtus sign & saw none. This would be a good place to trap for shrews. Also gopher sign was abundant.

About when we were going to leave, I heard a frog

LIDICKER
1974

Dec 15 cont

calling (probably Hylas) from a brush pile ~ 15 ft. above, on a slope, a small frog. This was at noon. While investigating this brush pile we noticed how moist the leaf mold was, & Dave Bradford promptly found a Batrachoseps. This started a frantic search for about 25 min. throughout the area. Eschrich & Glang each found an additional specimen for a total of three. These were all in moist areas under rotting logs & rocks. Birds seen around Oak Pasture & Oak Crossing:

Sonoma Jay
Song Sparrow (Eschrich)
W.L. cr. Sparrow
Mt. Chickadee
Red Sl. Hawk
Brown-tit
Oregon Junco.

W. Bluebird
Ruby-cr. Kinglet - 1 (Eschrich)
lots of sapsucker holes in the & apple trees

Then we continued down the mountain to Melling Ranch. Km. marker 28 is 0.3 miles down from Oak Crossing. The Melling Ranch is about 14 mi. by rd. from Oak Crossing. About 1½ mi. past Melling Ranch we turned N on the road to Mike's Sky Ranch. We stopped briefly at Mike's & filled our water tank. Then we continued N. toward Valle de los Tinieblas. It is ~18½ mi. from the turnoff to Mike's. 5½ mi. N of the Sky Ranch we saw a bobcat cross the road in front of us; it was an excellent view. The road is quite passable, after Rancho San Antonio (~12.5 mi. from Mike's) the country opens up a bit &

LIDICKER
1974

Dec. 15 cont.

become drier or at least lower gradually. Shortly before we stopped to camp, we began to see Larrea bushes. We passed through a fence & went off to the E several hundred yards - at first along the fence & then around a spur & a rocky ridge to camp. Bradford & Blang left us at this point as they wanted to get back to San Diego that night. Birds seen from Oak Crossing to Camp:

Raven - 2	Nuttall's Woodpecker - 1 (Riggs & Mike's)
Red-tail Hawk	Audubon Warbler
Kestrel	Scrub Jay
Oregon Junco	Kingfisher - Mike's Sky Ranch
Roadrunner	

This camp is on the S. edge of the valley leading from Valle de la Trinidad to San Matías Pass. It is in Lower Sonoran Vegetation - Larrea, ocotillo, Prosopis, lots of cactus & agave, except for 1 species of Arctostaphylos. Lots of dipo sign & burrows of kit fox size. Some of the group set traps in rocks on slope behind us & some on desert flats. I set out 20 lg. coll. Sherman in flats. Bob & Mike put, Larry & I set a large Tomahawk trap baited with carcasses for a kit fox. Camp is @ 1050 m. according to our topo maps. It is 9.2 mi. E & 6.6 mi. S Colonia Cardenas.

After dinner we started to process animals when Bradford & Blang came back as they were not able to get gas in Col. Cardenas. They helped us skin & about midnight set out some additional traps on the rocky slopes.

LIDICKER
1974

Dec. 15 cont.

Asleep at midnight, & checked my first 10 traps. Only 1 was closed & empty. Finally got to bed ~ 0030.

Dec. 16

Up at 0700. Picked up traps. Caught 5 dipos & 1 Peromyscus eremicus & several spiny traps & lots with tail pulled. Dave & Bill stayed until about 1000. They released most of the P. eremicus & made notes on ws. & reprod. status, including for several double captures. Then they headed for Los Angeles and San Diego respectively. We broke camp after processing some animals at about noon. We drove into Colonia Cardenas in Trinidad Valley & filled one of our auxilliary gas tanks on the truck. They did not have "Pemex Extra" so we settled for the low octane stuff. The road descends gradually from our campsite into Valle de la Trinidad. Much of the valley is agricultural now. The road E of town is being graded in preparation for paving. Our camp was almost devoid of birds. Peter thought he heard a Raven + other is ele. On the way into town we saw Mt. Blueline + Lizzyland Strike.

Then we turned S out of El Valle de la Trinidad on the road to Ensenada. The road climbs through some rugged but low mountains & then out on a large plain (Llano de Rodeo). This plain is covered with small juniper trees. Then on the E we saw of the Sierra Juarez & Sierra San Pedro Mártir. About 30 mi. by rd. from Col. Cardenas Peter saw a Mourning Doves - wild on the

LIDICKER
1974

16 Dec. cont

first ones seen on this trip so far. The road is intermittently paved. Eventually we descended into Valle San Rafael which is almost solid agricultural fields. It is surrounded by hills which covered with desert scrub. It is not Lower Sonoran vegetation, but the soil is quite sandy & the shrubs well spaced. Beyond this the principal llano gave way to rocky hills & chaparral vegetation. Along this route, we also noticed Red-tail Hawk, Kestrel & Roadrunner.

We proceeded out across Valle San Rafael searching for Rancho Sangre de Cristo, type locality for Microtus californicus grimalli & also a locality for Dipodomys merriami trinidadensis. After several inquiries and a several mile side trip off to the N of the highway, we returned to the SE edge of the valley & found Rancho Sangre de Cristo nestled almost invisibly behind a spur of a hill. While searching in the Valle we came upon a marsh with a artificial pond, & here we saw: Coot - 100+, Dowitcher - 3, Pelps (see by Larry), Canvasback - 17 Bufflehead - 17
Pied bill Grebe, Killdeer, etc.

Rancho Sangre de Cristo has some beautiful grassy meadows along a stream, but they are heavily over-grazed. We walked in to the ranch house & 2 men there said we could come into camp & also trap. One short section of meadow was fenced & although stock had clearly been in it, the grass was much taller. We

L IDICKER
1974

Dec. 16 cont.

searched carefully throughout this meadow for any sign of Microtus & found none. We parked the camper in the farmyard & set out 20 Sherman's up stream from the ranch buildings around spike grass clumps. There was no definite Microtus sign but it seemed the most likely place. There I set 20 traps = the desert scenario - 10 going up the hill behind the ranch & 10 more on the flat on top. It was almost completely dark by the time I finished. Heard coyotes (s) calling while finishing the trapline.

We were invited to have café with the ~~rancher~~ ranchers so we spent about an hour chatting with them. We showed them pictures of Microtus & they indicated they were present. However, they were pretty vague about it & didn't, or in general did not seem to know the small mammals to call. Elevation was not there. After dinner, processed more animals. About 1100, I checked my 20 "Microtus traps": caught only 2 Reithrodontomys megalotis, one of which I released. We did not get to bed until about 0100.

Dec. 17

Got up ~~0700~~ 0645. Checked "Microtus-traps" & left them out. Got only 1 Reithro. in the same trap as I had caught & released one last night. Picked up traps in desert. On slope had 6 D. merriami. On top: 5 D. merriami, 1 D. agilis & 2 Peromyscus maniculatus. Saw jack rabbit on top. All 5 of us caught a total of 47 animals, but no Microtus. It seems looks like

L IDICKER
1974

Dec. 17 cont

M. c. grinnelli is extinct. We chatted some more with the ranchers which frequency animals. Kangaroo rats are called: rata cuatralba. Picked up "aqueous traps" laid out; caught nothing more. Rolf had found a barn owl in some magnificent trees on the N side of the "swamp" so he went back & collected a bag full of pellets. Broke camp about 1330. Bird seen around camp:

Killdeer
Snipe
Wh. cr. Sparrow
Starling (lg. flock in palm tree)
Eng. Sparrow (flock in barnyard)
Yellow-rumped Warbler
Barn Owl - seen by RRK + I found dead in swamp
C. Raven
Red-winged Blackbird
Brewer's Blackbird
Phainopepla - 1 dr. +
Loggerhead Shrike
Sparrow hawk - 2 (1 red-bellied + 1 of red bellied morphs) - LR.
Mockingbird
Verdin - 4+
Black Phoebe
Say's Phoebe
Le Conte's Thrasher
Mallard - probably domesticated (cont)

LIDICKER
1974

Dec. 17 cont.

A total of 84 traps (by colleg. Sherman's) were set by this group specifically for Microtus in this camp. Rigg has more details in his notes regarding trap distribution by habitat.

more on bird list: Blk. thr. Sparrow (Rigg)
Blk. tailed Gnatcatcher (Rigg)
Kestrel
Peregrine Falcon (Rigg)
Zone-tailed Hawk (Krohne)
unident. blackbird

We drove through Valle San Rafael and on through the mountains to Ensenada. Then we proceeded N on highway 1 (non-toll road) to where it crosses Arroyo Martirez. The village of El Mision is on the N. edge of the arroyo on either side of the highway. We pulled off into the arroyo (S. side) to camp & set traps for Microtus. By this time it was about 1600. We immediately began to find Microtus sign, quite a lot scattered fresh, in numerous places on the valley floor. One of the best places was in Dystichilis and on fresh - some Salicornia mixed in + "spike grass" clumps scattered around. Some sign was even ~~with~~ a few feet above the valley bottom on the S edge where it was grassy & shrubby (Eschscholzia and tarps here). I set out 30 by colleg. St. - around spike grass, in Dystichilis, etc. (6 of them were in a slightly drier or better drained area, but still looking good for M.).

LIDICKER
1974

Dec. 17 cont

There was ~~so~~ much sign that we were quite confident of catching a series of Microtus.

After dinner we processed animals & ran our traplines about 1130-1200. Catch - nothing.

Dec 18

Got up 0645 & checked our traps. Catch - NOTHING! So we left our traps out. I moved 3 of the 6 I had in the brier area to the edge of a swampy area with tall weeds & definite fresh Microtus sign. Then Rolf & I set out a box of 25 longworth traps along the edge of this swampy area. Almost all of these were set in runways. All these traps plus the ones I set last night were baited with mixed seed with a little peanut butter mixed in. Then we ~~the~~ processed animals all morning.

About 12-12:30 we packed up our camp. Finally we picked up our traplines. Dave Krohne had 1 Microtus. All the rest of us caught nothing. In a few cases Microtus droppings were in or on the traps. We finally got on the road about 1330. Birds seen around this camp: Wh. cr. Sparrow

Yellowthroat - 1 in reed swamp

Cowbird

Red-winged Blackbird

Ruby-cr. Kinglet

Black Phoebe

Say's Phoebe

L'DICKER
1974

Dec. 18 cont.

Oregon Junco

White tailed Kite - hovered for awhile over area where Krohn had caught the M.

Red tail. Hawk

incident Harrier seen by Riggs (he thought it might be Rusty throated)

Brown Towhee

Song Sparrow

Common Raven

Killdeer

Audubon Warbler

Barn Owl - 1 heard only

We drove into Tijuana, noting Calif Gull on the way & stopped for about 45 minutes for shopping & to change money. Then we crossed the border, having some difficulty finding the approach, & drove to San Diego. We went to the IBP house next to the S. Diego State campus where we had stayed on the way down (Mary Duffey in charge) + Bill Glass was there also. Here we had dinner, 3 of us took showers, & we left Roy Kotzel & Dave Krohn there to spend the night. The remaining 3 of us continued on North. We drove to N. of Los Angeles & stopped to camp in a gravel pit off the road to Ventura (Calif. 121) & near Castaic Jct. It was about 0030.

Dec 19

Got up 0700: quite cold night. Around camp: saw - Sterling - Riggs

White tail. Kite - Riggs.

Red tail. ~~Hawk~~ Hawk + W. Crow, + Kestrel

LIDICKER
1974

Dec. 19 cont

We had breakfast & got underway again about 0800. We continued N on Interstate 5 until Los Banos where we stopped for lunch. It was cold, overcast, & with intermittent fog. Birds noticed on this stretch:

W. Crow	Brewer's Blackbird
Common Raven	Red-wing
Starling	White-tailed Kite - 1?
Meadowlark	White-cr. Sparrow
Yellow-rumped Warbler	Killdeer
Kestrel	L. Shrike
Marsh Hawk	Red-tail. Hawk

Mourning Dove - 2 (on Kings Co. line, S. border); these were the first 2 for me for the entire trip; 2 ~~other~~ others were seen later.

Horned Lark	Yellow-billed Magpie
House Finch	

After lunch we went to the nearby Los Banos Wildlife Area (State) & found it closed for bird-watching because it was the hunting season. So we went on to the San Luis National Wildlife Refuge a few miles to the north. We spent about 1 hr. driving around the dikes here. Birds seen:

Kestrel - common	Common Gallinule - 20±
Marsh Hawk - 10±	Pied-bill. Grebe - 25±
Great Blue Heron - common	White-tailed Kite - 5±
Coot	Mallard

LIDICKER
1974

Dec. 19 cont.

Red-tl. Hawk	Savannah Sparrow
Yel-billed Magpie	Water Pipit
Loggerhead Shrike	Least Sandpiper
Calif. Quail	Killdeer
Great Egret	Horned Lark
Snowy Egret	Amer. Bittern - 4+
WL. cr. Sparrow	unident. teal
Song Sparrow	Gadwall
Red-sh. Flicker	Cooper's Hawk - 1 or 2

Pigeon Hawk? - 1 bird seen which we thought might be this species but likely was a second Cooper's Hawk.

Mocking bird	Black Phoebe
Meadowlark	Larus sp.
Lark Sparrow	

Second near refuge: Shoveler

Pintail	Gadwall	Coot
Ruddy duck	Snow goose - 1	

Pond ~½ mi. W Volta:

Whistling Swan - 20±	Blk-necked Stilt - 1
Canvasback	Dowitcher - 50±
Pintail	Calif. Gull
Avocet - 10±	Ring-billed Gull
Ruddy duck	Violet-green Swallow - 3
Coot	Kestrel
L. Shrike	

We continued on to Berkely coming at MVZ at 1710.

5 0289